INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

October 31, 2011

Ms. Nuria Muñiz
NPL Coordinator
Superfund Division
U.S. EPA Region V
77 West Jackson Boulevard
Chicago, Illinois 60604-3507

Dear Ms. Muñiz:

Re: Preliminary Assessment
Meridian Automotive Systems
Shelbyville, Shelby County
AI# 11485
CERCLIS ID# INN000510409

SITE SUMMARY

The Indiana Department of Environmental Management (IDEM) under a cooperative agreement with the U.S. Environmental Protection Agency (EPA) has conducted a Preliminary Assessment (PA) of the former Meridian Automotive Systems (MAS), located in Shelbyville, Shelby County, Indiana. The PA was conducted to determine if the site warrants further investigation under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA, a.k.a. Superfund).

The site is approximately 48.9 acres and contains a 354,018 square foot manufacturing building, guard shack, mold storage building, an outdoor waste storage area, and a pump house. The manufacturing building is constructed on a concrete slab foundation with sheet metal siding. The site is generally surrounded by additional commercial/industrial facilities and agricultural land. The nearest residential neighborhood is >¼ mile to the east.

MAS began operations on the site in 1989 as an automotive products supplier. The company produced front and rear end modules, exterior composite modules and structural components. IDEM records indicate the facility was a Large Quantity Generator (LQG) of hazardous waste, mostly waste paint and solvents. Waste codes utilized at the facility included D001, F003, D035, F005, and Used Oil.

On August 7, 2009, MAS filed a voluntary petition for liquidation under Chapter 7 in the U.S. Bankruptcy Court for the District of Delaware. Operations at the site ceased approximately one month prior to the bankruptcy proceedings. The facility was abandoned by MAS on or about July 15, 2009, when the company declared bankruptcy.

In November 2009, the Indiana Department of Environmental Management (IDEM) State Cleanup Section requested that U.S. EPA Region 5 conduct a removal assessment of the Meridian Automotive Systems site. The request was based in part on requests from local officials, including the Shelbyville Fire

Department, who had expressed concern that uncontained hazardous substances at this site presented a potential threat to the local population.

During a site visit on November 25, 2009, U.S. EPA observed the following: approximately 200 fifty-five (55)-gallon drums containing flammables, paints, adhesives, corrosives, and unknown liquids; numerous 250-gallon totes with used oil and adhesives; several gas cylinders; process equipment, including 26 hydraulic presses; and four pits containing liquid/solid mixture.

EPA, START, and ERRS mobilized to the site and began work on November 30, 2009. All drums found in the exterior hazardous waste storage shed were moved inside the building and properly staged in an open area on the main plant south floor. A thorough search of the building was conducted by START and ERRS to locate additional containerized waste. Containers were then moved to the staging area via forklifts and hand carts. START conducted sampling of select waste drums and containers on December 1 and submitted these samples for laboratory analysis. ERRS conducted waste profile sampling to confirm waste profiles previously maintained by Meridian Automotive Systems with several vendors. One press pit was drained using an attached oil-water separator. Oil was collected in a poly-tote and water was discharged through city sewers after notification to City of Shelbyville water treatment plant.

U.S. EPA demobilized from the Site on December 4, 2009. EPA re-mobilized to the Site on December 14, 2009, and checked the facility. Puddles of water were noted in several areas indicating a leaking roof. Some waste remained on-site pending disposal. MAS contacted U.S. EPA regarding potential buyers for the property. At that time, EPA halted operations awaiting response from MAS and potential buyers.

In the spring of 2011, Saran Industries (Saran) of Indianapolis took possession of the property. Saran was founded in 1964 and specializes in the painting and coating of water towers, buildings and industrial structures with locations across the United States. Saran has expanded to industrial finishing and custom processing of forgings, castings and machined parts and plans on using the MAS site for those purposes. Saran has conducted both Phase I and Phase II Site Assessments of the property and continues the general cleanup of the site.

Please contact me at 317/234-6878 should you have any questions regarding the content of this correspondence.

Sincerely,

Richard R. Milton, Project Manager
Site Investigation Program
Office of Land Quality

Cc: File (VFC)

PRELIMINARY ASSESSMENT REPORT

for:

MERIDIAN AUTOMOTIVE SYSTEMS
SHELBYVILLE, INDIANA
SHELBY COUNTY

Prepared by:
Richard R. Milton

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY
REMEDIATION SERVICES
SITE INVESTIGATIONS

October 31, 2011

Signature Page
for
Preliminary Assessment Report

MERIDIAN AUTOMOTIVE SYSTEMS
SHELBYVILLE, INDIANA
SHELBY COUNTY
U.S. EPA ID: IND 984867267

Prepared By: _____ Date: 10-26-11
RICHARD R. MILTON, PROJECT MANAGER
Site Investigation Section
Indiana Department of Environmental Management

Approved By: _____ Date: 10/3/11
TIMOTHY JOHNSON, SENIOR ENVIRONMENTAL MANAGER
Site Investigation Section
Indiana Department of Environmental Management

Approved By: _____ Date: 11-05-11
GABRIELE HAUER, SECTION CHIEF
Site Investigation Section
Indiana Department of Environmental Management

Approved By: _____ Date: 12/21/11
EPA SITE ASSESSMENT MANAGER
U.S. EPA Region V

TABLE OF CONTENTS

ATTACHMENTS

Attachment – A	Site Location Map 4-Mile Radius Map Site Topography Map 15-Mile Surface Water Pathway Map
Attachment – B	Site Photos
Attachment – C	USEPA Region V Pollution Reports
Attachment – D	Phase II Environmental Site Assessment of the former Meridian Automotive Site conducted for Saran Industries, Pages 1-12 (No Attachments included)

SECTION 1.0 INTRODUCTION

The Indiana Department of Environmental Management (IDEM), Office of Land Quality (OLQ), Site Investigation Section, under a Cooperative Agreement (CA) with the United States Environmental Protection Agency (U.S. EPA), Region V Office, has been funded to perform Preliminary Assessments (PA) at certain sites listed in the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS). This work is conducted under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 (a.k.a. Superfund), and the Superfund Amendments and Reauthorization Act (SARA) of 1986.

The primary objectives of the PA are:

- to collect readily available information and conduct a site and environs reconnaissance.
- to distinguish between sites that pose little or no threat to human health and the environment and sites that require further investigation.
- to identify sites requiring assessment for possible emergency response actions.

The Site Investigation Section was given approval by the U.S. EPA to conduct a PA at the Meridian Automotive Systems site, Shelbyville, Shelby County, Indiana. Information contained in this report will be used to evaluate this site to support a site decision regarding the need for further Superfund action, including the possibility for the Meridian Automotive Systems site to be considered for inclusion on the National Priorities List (NPL) of hazardous waste sites.

SECTION 2.0 SITE BACKGROUND

Section 2.1 Site Description

Meridian Automotive Systems (MAS) formerly operated at 501 Northridge Drive, Shelbyville, Shelby County, Indiana. The site is located on the United States Geological Survey Shelbyville Quadrangle Topographic Map, latitude 39°32’39.66”N, longitude 85°47’39.41”W.

MAS ceased manufacturing operations at the site on or about July 15, 2009, when they declared bankruptcy. The facility was abandoned with production equipment in place. Containerized wastes and materials were also abandoned when operations ceased.

The site is approximately 48.9 acres and contains a 354,018 square foot manufacturing building, guard shack, mold storage building, an outdoor waste storage area, and a pump house. The manufacturing building is constructed on a concrete slab foundation with sheet metal siding. The site is generally surrounded by additional commercial/industrial facilities and agricultural land. The nearest residential neighborhood is >¼ mile to the east.

The Big Blue River and several flooded gravel pits are within 1 mile to the east and southeast. Depth of ground water is 15’ to 20’ bgs. Soils are mostly gravelly clay.

Section 2.2 Site History

MAS began operations on the site in 1989 as an automotive products supplier. The company produced front and rear end modules, exterior composite modules and structural components. IDEM records indicate the facility was a Large Quantity Generator (LQG) of hazardous waste, mostly waste paint and solvents. Waste codes utilized at the facility included D001, F003, D035, F005, and Used Oil.

On August 7, 2009, MAS filed a voluntary petition for liquidation under Chapter 7 in the U.S. Bankruptcy Court for the District of Delaware. Operations at the site ceased approximately one month prior to the bankruptcy proceedings. The facility was abandoned by MAS on or about July 15, 2009, when the company declared bankruptcy.

In November 2009, the Indiana Department of Environmental Management (IDEM) State Cleanup Section requested that U.S. EPA Region 5 conduct a removal assessment of the Meridian Automotive Systems site. The request was based in part on requests from local officials, including the Shelbyville Fire Department, who had expressed concern that uncontained hazardous substances at this site presented a potential threat to the local population.

During a site visit on November 25, 2009, U.S. EPA observed the following; approximately 200 fifty-five (55)-gallon drums containing flammables, paints, adhesives, corrosives, and unknown liquids; numerous 250-gallon totes with used oil and adhesives; several gas cylinders; process equipment, including 26 hydraulic presses; and four pits containing liquid/solid mixture. Two of the pits are approximately 350 feet by 30 feet while two smaller pits are approximately 30 feet by 30 feet. The pits reportedly contained oil, water, and sludge.

EPA, START, and ERRS mobilized to the site and began work on November 30, 2009. All drums found in the exterior hazardous waste storage shed were moved inside the building and properly staged in an open area on the main plant south floor. A thorough search of the building was conducted by START and ERRS to locate additional containerized waste. Containers were then moved to the staging area via forklifts and hand carts. START conducted sampling of select waste drums and containers on December 1 and submitted these samples for laboratory analysis. ERRS conducted waste profile sampling to confirm waste profiles previously maintained by Meridian Automotive Systems with several vendors. One press pit was drained using an attached oil-water separator. Oil was collected in a poly-tote and water was discharged through city sewers after notification to City of Shelbyville water treatment plant. Six hydraulic presses were drained of oil, which was collected in poly-totes. The Action Memorandum for the Site was drafted and submitted through the review process.

U.S. EPA demobilized from the Site on December 4, 2009. EPA re-mobilized to the Site on December 14, 2009, and checked the facility. Puddles of water were noted in several areas indicating a leaking roof. Some waste remained on-site pending disposal. MAS contacted U.S. EPA regarding potential buyers for the property. At that time, EPA halted operations awaiting response from MAS and potential buyers.

In the spring of 2011, Saran Industries (Saran) of Indianapolis took possession of the property. Saran was founded in 1964 and is a leader in the painting and coating of water towers, buildings and industrial structures with locations across the United States. Saran has expanded to industrial finishing and custom processing of forgings, castings and machined parts and plans on using the MAS site for those purposes. Saran continues the general cleanup of the site and has removed and sold much of the remaining MAS equipment.

SECTION 3.0 FIELD INVESTIGATION ACTIVITIES

Section 3.1 Reconnaissance and Inspection

On June 28, 2011, IDEM personnel made a reconnaissance visit to the site and met with Jon Harding, Property Manager for Saran. Saran is in the final stages of cleanup and expects to begin heat treating operations within 30 days. According to Mr. Harding there are no underground storage tanks (USTs) or hazardous waste on-site.

A tour of the facility showed several drums containing trash and demolition debris but the inside of the building was generally clean and in good condition. Large quantities of debris and recyclable materials remained in outside storage areas on the south side of the property. There were no signs of any significant releases to soil or concrete surfaces.

Section 3.2 Past Environmental Investigations

The facility has had numerous RCRA inspections since 1998. The facility was generally violation free until 2009 when the company began to experience economic problems. MAS was cited in August 2009 for failure to properly label containers and not complying with hazardous waste training, and preparedness and prevention regulations.

After the bankruptcy, the property was sold and subsequently resold to Saran Industries. Saran contractors conducted Phase I and Phase II Investigations of the property. During the Phase II activities, a total of 6 soil samples and 2 ground water samples were collected using a direct-push sampling device. Samples were collected on February 1, 2011, and analyzed for VOCs and SVOCs. Samples were evaluated by the consultant using the IDEM Risk Integrated System of Closure (RISC) levels for Industrial or Residential limits. Acetone was the only contaminant detected (soil only), and it did not exceed any RISC limits. IDEM staff compared the results using the Superfund Chemical Data Matrix (SCDM). None of the samples exceeded SCDM benchmarks.

The consultant for Saran stated they found no evidence of soil or ground water impacts during the Phase II and believed no additional investigation was warranted (Attachment D). The facility was returned to RCRA compliance by IDEM on June 8, 2011.

SECTION 4.0 MIGRATION PATHWAYS

Section 4.1 Ground Water

No ground water samples were collected as part of this Preliminary Assessment. A review of online Indiana Department of Natural Resources (DNR) water well records and a windshield survey shows possibly only one potable groundwater well within ¼ mile of MAS. A subdivision of approximately 20 homes on private wells exists >½ mile north of the site. Beyond ½ mile west, NW, and SW, of the site is rural farm land with scattered, widely-spaced home sites.

The surrounding businesses and residential neighborhoods to the east are all supplied with city water. The city of Shelbyville obtains its water from four (4) wells in the Blue River Well Field. The Well Head Protection Area 10-year time-of-travel is >5 miles south of the MAS site. Utility services are provided by Indiana American Water, part of the American Water Works Company, Inc., which serves a population of approximately 17,642.

During the Phase II activities conducted by Saran's consultant, a total of 2 ground water samples were collected using a direct-push sampling device. Samples were collected on February 1, 2011, and analyzed for VOCs and SVOCs. No contaminants were detected in ground water. There is no evidence that a threat to drinking water via the ground water pathway exists.

Section 4.2 Surface Water

No surface water samples were collected as part of this Preliminary Assessment. The nearest surface water pathway would be via a railroad ditch to the Du Prez Ditch, a tributary of the Big Blue River. Using this pathway, the Big Blue River is over 2 miles from the site. It is unlikely to be affected by run-off from the MAS facility.

Section 4.2.1 Drinking Water Threat

Shelbyville obtains its water from four (4) ground water wells in the Blue River Well Field. Surface water is not utilized for drinking purposes. A threat to drinking water via the surface water pathway does not exist.

Section 4.2.2 Human Food Chain Threat

The human food chain pathway generally targets fisheries where consumption of contaminated species may occur. The Big Blue River is the target fishery for potential contamination from MAS. The Big Blue River has a fish consumption advisory for PCBs in several species. There is no evidence PCBs were ever present at MAS. There are also several water-filled gravel pits within 1 mile to the east. The fishing potential for these pits is unknown. A threat to the Human Food Chain via the surface water pathway is unlikely.

Section 4.2.3 Environmental Threat

The MAS location is on the northwestern periphery of the city limits of Shelbyville. The MAS facility is in a mixed commercial, rural, and residential area. Farmland dominates the landscape west of the MAS property. It is unlikely any sensitive species are solely affected by site conditions at MAS.

Section 4.3 Soil Exposure

No soil samples were taken as part of this Preliminary Assessment. The facility had a good compliance record in the previous RCRA inspections and no releases of contaminants were noted. The sudden bankruptcy and closing of the facility resulted in the abandonment of wastes on-site. Those wastes appear to have been properly cleaned up and disposed by EPA, START, ERRS, and the subsequent owners. No soil sampling was conducted by EPA personnel.

During the Phase II activities conducted by the new owner's consultant, a total of 6 soil samples were collected using a direct-push sampling device. Samples were collected on February 1, 2011, and analyzed for VOCs and SVOCs. Acetone was the only contaminant detected and it did not exceed any of the Superfund Chemical Data Matrix (SCDM) benchmarks.

No releases to the ground were noted during IDEM's June 28, 2011, site visit. Any exposure for chemicals potentially released to the ground would be limited to workers or visitors at the site.

Section 4.4 Air Route

The facility is no longer functioning and therefore an air route does not exist. No airborne migration of contaminants was documented while the facility was in operation or at the last IDEM site visit. A threat via the air pathway does not exist.

SECTION 5.0 SUMMARY AND CONCLUSIONS

Prior to the bankruptcy and shutdown, MAS showed relatively good housekeeping and container management of hazardous wastes. If contamination were to exist it most likely would originate from the four waste collection pits on the property. There is no evidence that these pits have contaminated ground water or that they could affect the nearest potable well.

The site has had extensive clean-up since the bankruptcy and the new owner commissioned Phase I and Phase II assessments. No significant contaminants were found and Saran has begun operations.

SECTION 6.0 REFERENCES

USEPA Region V Pollution Reports, December 4, 2009 (#1) through May 5, 2010 (#4)

Phase II Environmental Site Assessment/Limited Subsurface Investigation
Former Meridian Automotive Site
501 Northridge Drive
Shelbyville, IN
April 21, 2011
Patriot Engineering and Environmental, Inc.,
Indianapolis, IN

IDEM Virtual File Cabinet records
http://www.in.gov/idem/files/vfc/vfc_h1.html

ATTACHMENT A

Meridian Automotive Systems Incorporated
Shelbyville, Shelby County, Indiana
EPA ID: IND 984867267
Aerial Site Location Map

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

Mapped By: Diane Osborn, Office of Land Quality
Date: May 26, 2011

0 100 200 400 Feet
0 20 40 80 120 Meters

IDEM

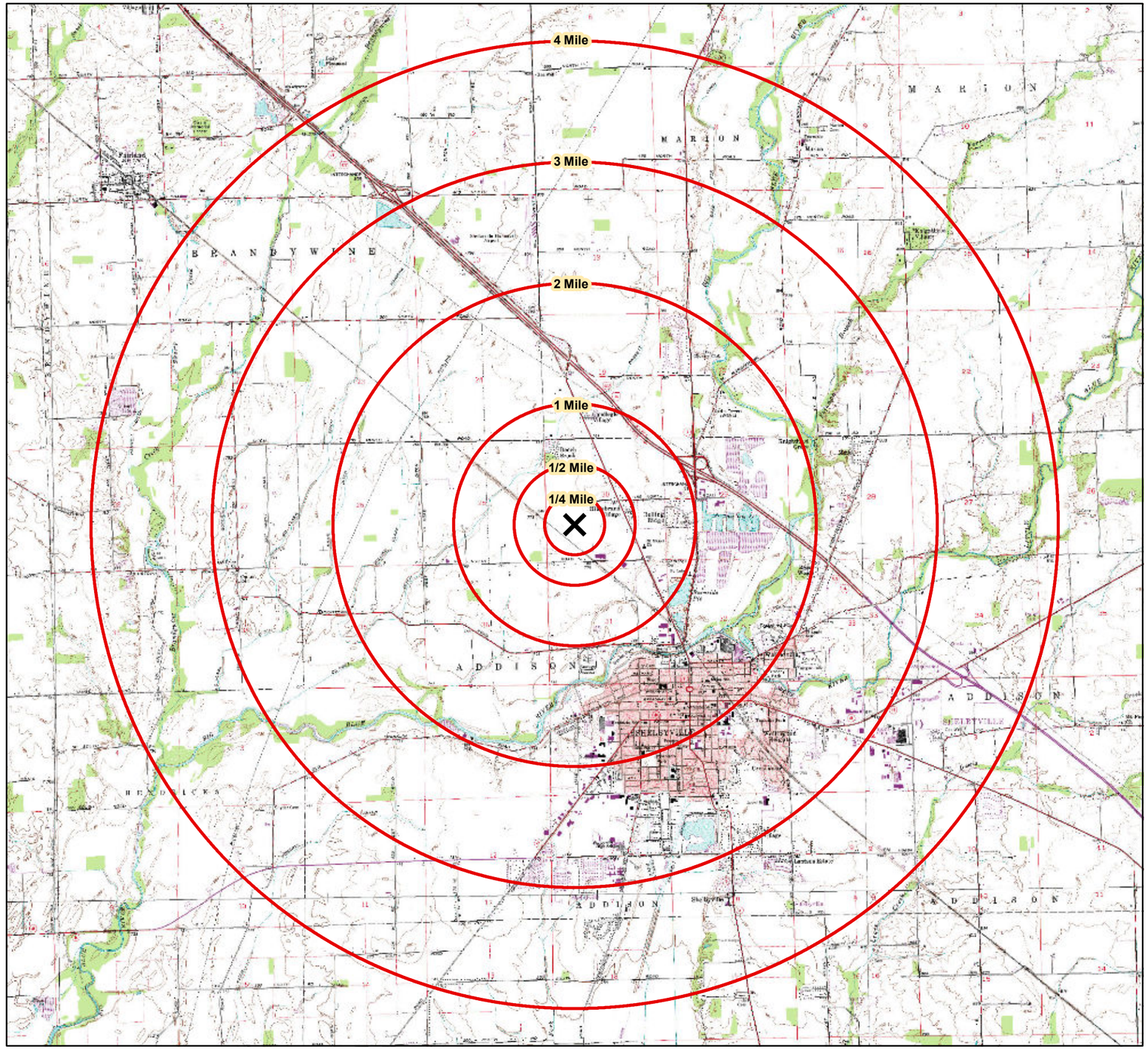
Site Location
Site Boundary

Shelby County

Sources:
Non Basemap Data
- Obtained from the State of Indiana Geographical Information Office Library

Basemap Data
- Obtained from 2005 Indiana Map Framework Data (www.indianamap.org)

Map Projection: UTM Zone 16 N
Map Datum: NAD83



Meridian Automotive Systems Incorporated
Shelbyville, Shelby County, Indiana
EPA ID: IND 984867267
Four Mile Radius Map

85°47'39.41"W 39°32'39.66"N
(Approximate Center of Site)

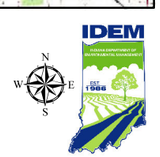
Buffer Distance	Adjusted Population
0 - 1/4 Mile	35
1/4 - 1/2 Mile	111
1/2 - 1 Mile	502
1 - 2 Mile	5342
2 - 3 Mile	6577
3 - 4 Mile	3557
Total Adjusted Population	16124

Center of Site

Buffer Radius

0 0.5 1 2 3 4 Miles

0 1 2 4 6 KM



Mapped by: Diane Osborn, IDEM, Office of Land Quality, Science Services Branch, Engineering & GIS Services May 26, 2011

Sources:
IDEM 4 Mile Mapper Application
Indiana Geographic Information Officer (GIO) Data Library
USGS Digital Raster Graphics 1:24,000 topographic map
Census block group 2006 total population

Disclaimer: This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.
There are known sources of error in the population estimates presented on this map including:
- The Census 2006 block group population data is out of date, and is itself an imperfect estimate of population.
- The adjusted population estimate derived from the Census 2006 block group data assumes that the population is evenly distributed in each block group polygon.
- The Census 2006 block group population has been clipped to include Indiana data only.

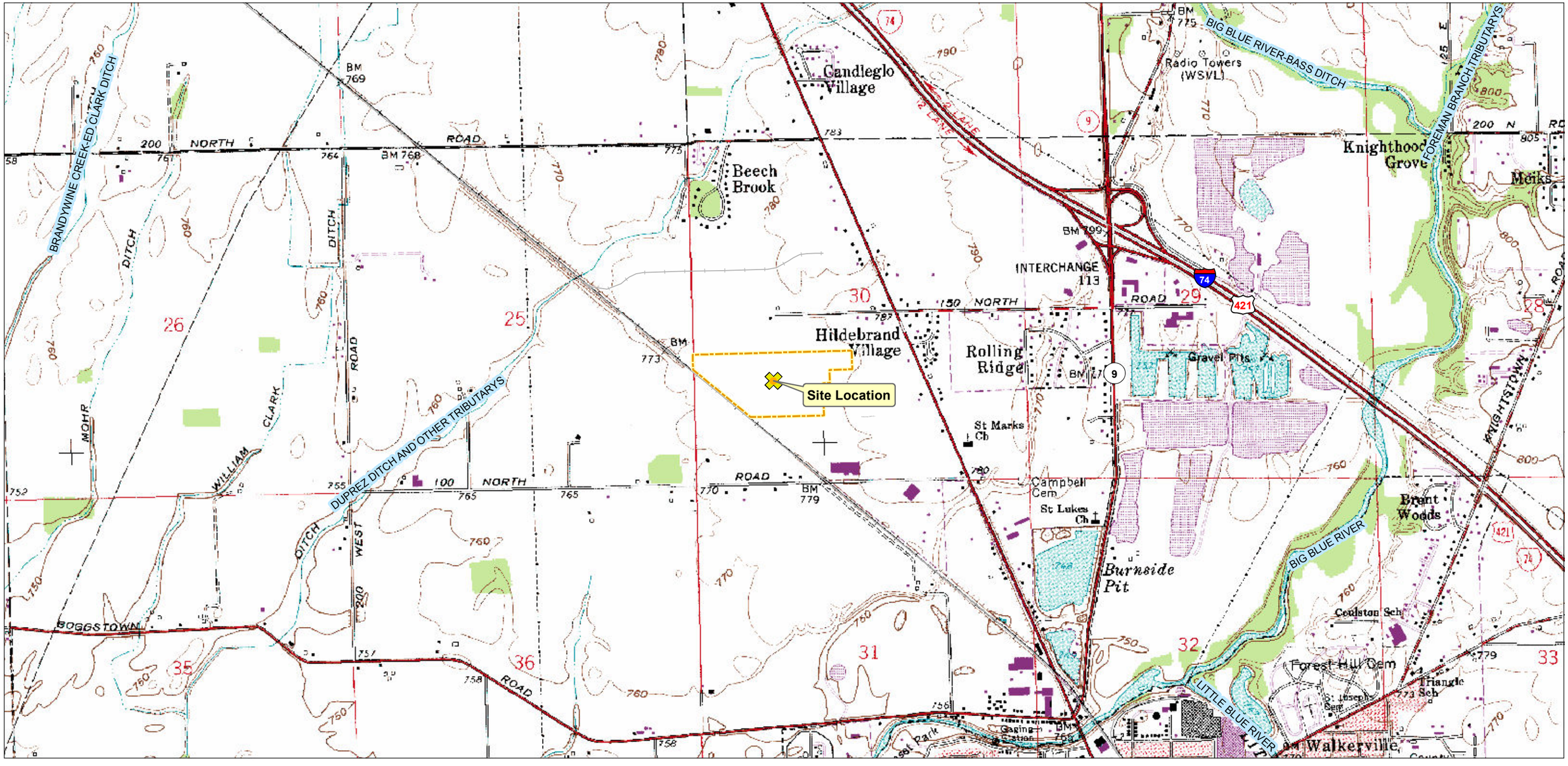
Method of Estimating Population: The adjusted population estimate is the sum of Census 2006 block group populations. The adjusted population estimate (TOTPOP field) is adjusted to include only the areas of the block groups contained inside the buffers. The adjusted population estimate assumes that the population is evenly distributed in each block group polygon. The specific procedure used in this analysis is as follows:

1. The point for the center of the site is selected interactively by the user through the 4 Mile Mapper model or a polygon is digitized through the 4 Mile Mapper Polygon model.
2. The user initiates the 4 Mile Mapper model to perform the rest of the multi-step analysis which is described in the following steps.
3. The study area point or polygon is buffered at 1/4, 1/2, 1, 2, 3 and 4 miles.
4. The original area of the census block polygons is calculated and stored.
5. The buffers are used to clip the census block group polygons. This is a new area referred to as the shape area. The shape area has the attribute records associated with the original census block group polygon with the area of the new polygon area.
6. The shape area of the census block polygons is divided by original area of the census block polygons to calculate the percent change.
7. The percent change result is then multiplied by the population of the original census block to yield a calculated population for the new polygon. For example: Block Group A with an area of 10 square miles and a population of 200 people is split into 2 polygons by the 4 mile buffer ring. The area of the block group inside the 4 mile buffer is 2 square miles, or 20% of the area of the original 10 square mile block group. Assuming the population is uniformly distributed in Block Group A, the population from Block Group A that is within the 4 mile buffer ring should also be 20% of the total population for the block group. Twenty percent of 200 is 40 people. (2 ÷10 × 200 = 40)
8. The newly calculated population statistics are associated in a database table that is converted into a layer file that is displayed in the Four Mile Radius Map. The new population figures from the layers (attribute tables) are then copied into a spreadsheet that subtracts the population figure from the previous buffer. This is done by taking the population for each buffer distance and subtracting the population of the next smaller buffer distance to provide a population figure for the donut area bounded by each pair of consecutive buffer distances (e.g. 0 to 1/4, 1/4 to 1/2, 1/2 to 1, 1 to 2…). An adjusted population table is labeled and pasted into the Four Mile Radius Map.

The main code that repeats over and over for the 4Mi_Mapper model is: Buffer>Clip>Add Fields>Calculate Field>Dissolve

All models were developed by E.J. McNaughton, IDEM GIS Coordinator

Meridian Automotive Systems Incorporated
Shelbyville, Shelby County, Indiana
EPA ID: IND 984867267
Topographic Site Location Map



This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

Mapped By: Diane Osborn, Office of Land Quality
Date: May 26, 2011

0 250 500 1,000 1,500 2,000 Feet
0 100 200 400 600 Meters

Center of Site
Site Boundary

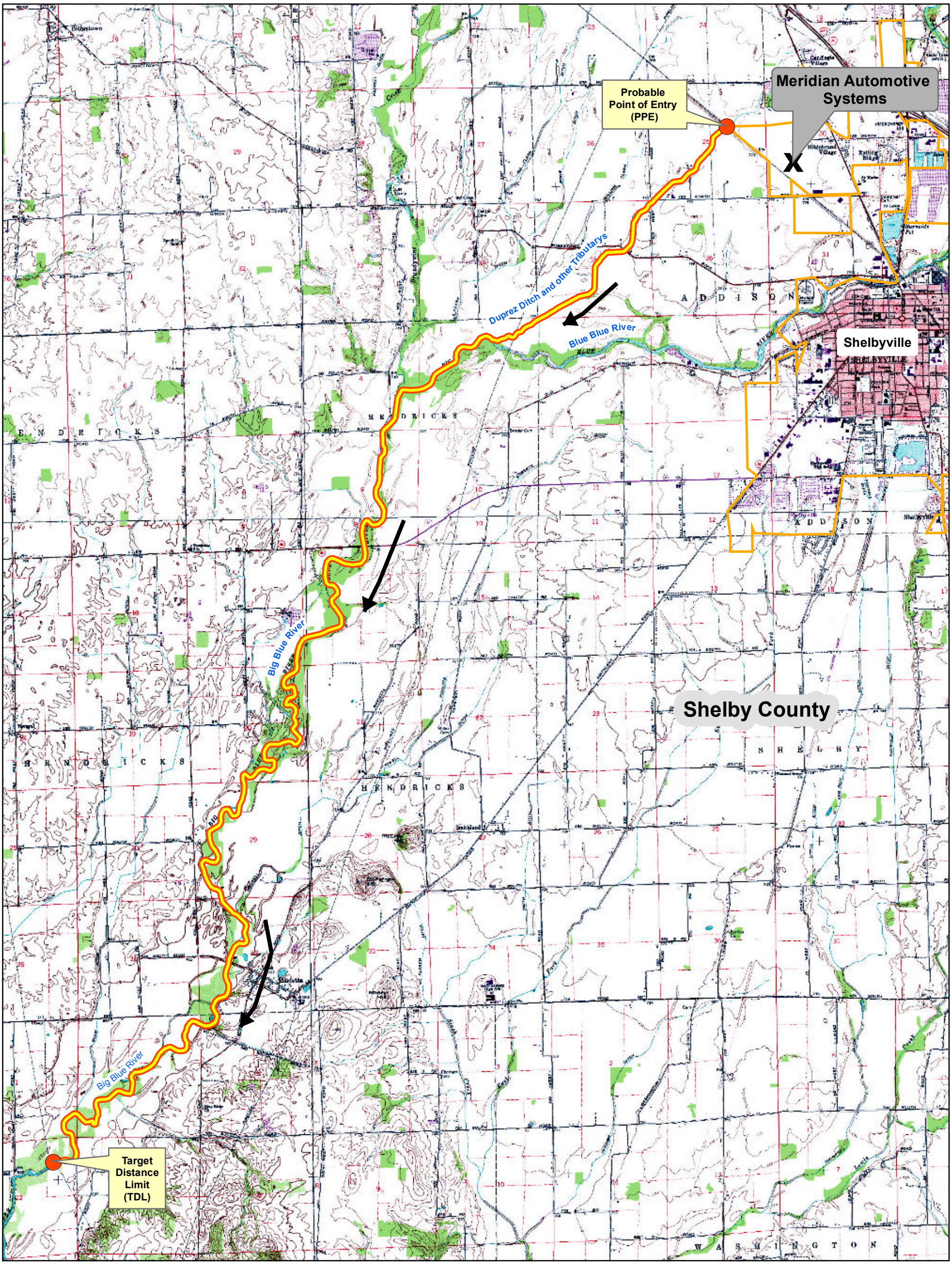
Shelby County

Sources:
Non Basemap Data
- Obtained from the State of Indiana Geographical Information Office Library

Basemap Data
- USGS Digital Raster Graphics 1:24,000 topographic map

Map Projection: UTM Zone 16 N
Map Datum: NAD83

Meridian Automotive Systems Incorporated
501 Northridge Dr., Shelbyville, Shelbyville County, IN
EPA ID: IND 984867267
15 Mile Surface Water Map



This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

Mapped By: Diane Osborn, Office of Land Quality
Date: November 18, 2011

0 0.5 1 Miles
0 0.5 1 2 KM

N W E S

IDEM
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
EST 1986

X Site
Flow Path
Fifteen Mile Surface Path

Sources:
Non Basemap Data
- Obtained from the State of Indiana Geographical Information Office Library

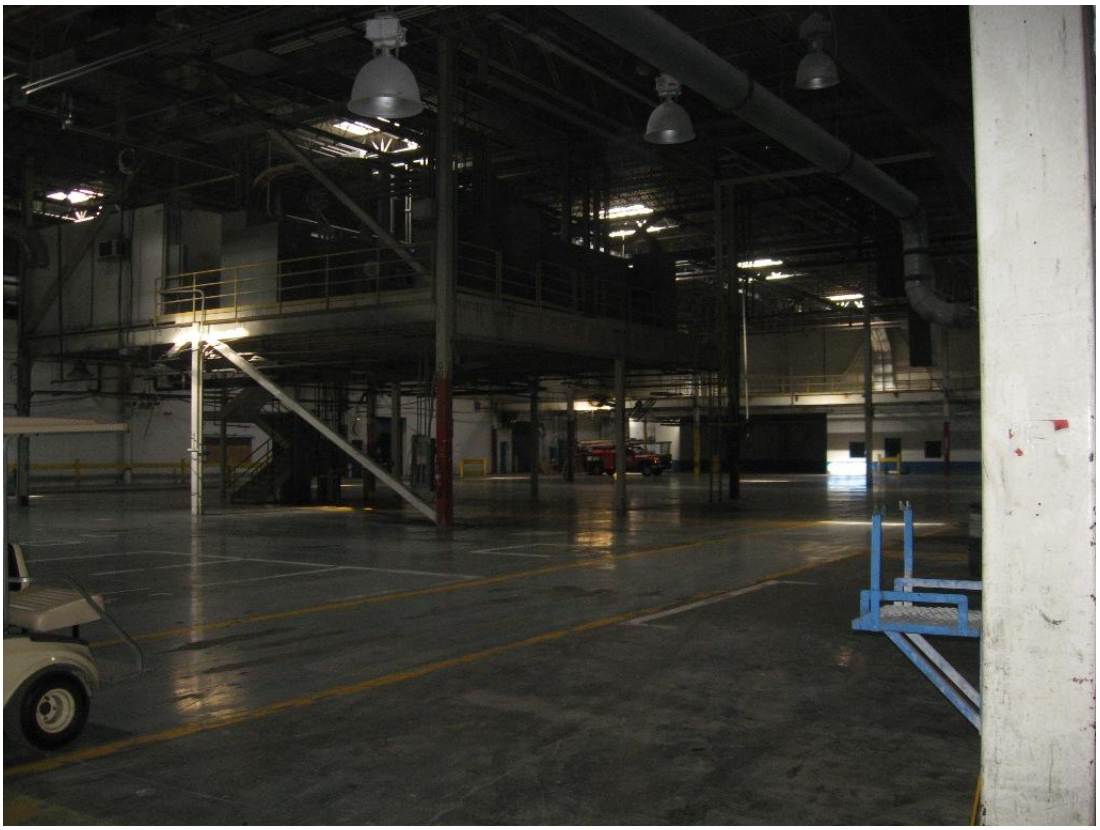
Basemap Data
- USGS Digital Raster Graphics 1:24,000 topographic map

Map Projection: UTM Zone 16 N
Map Datum: NAD83

ATTACHMENT B
Site Photos

Meridian Automotive Systems front gate facing SW.

Facing NW toward loading dock area on south side of main building.



Interior of main building.

Pit area in process of cleanup. Oil contaminated debris.

Another pit area after cleanup.

Continuing cleanup and debris removal inside the main building.

Inside waste storage area being utilized during cleanup.

Facing south, demolition debris being stored outside.

ATTACHMENT C

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Meridian Automotive Systems Shelbyville - Removal Polrep

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: **POLREP #1**
Initial POLREP
Meridian Automotive Systems Shelbyville

Shelbyville, IN
Latitude: 39.5454600 Longitude: -85.7917300

To: Shelly Lam, U.S. Environmental Protection Agency
Verneta Simon, U.S. Environmental Protection Agency
Jeff Bryniarski, Weston Solutions
Linda Nachowicz, U.S. Environmental Protection Agency
Jason El-Zein, U.S. Environmental Protection Agency
Charlie Gebien, U.S. Environmental Protection Agency
Mark Durno, U.S. Environmental Protection Agency
Richard Murawski, U.S. Environmental Protection Agency
Mila Bensing, U.S. Environmental Protection Agency
David Chung, U.S. Environmental Protection Agency
Tim Johnson, IDEM
Dan Chesterson, IDEM
Bill Myers, IDEM
Tony Logan, City of Shelbyville
Harry Atkinson, IDEM
Max Michael, IDEM
Ken McDaniel, IDEM
Eileen Furey, U.S. Environmental Protection Agency

From: Shelly Lam and Verneta Simon, On-Scene Coordinator
Date: 12/4/2009
Reporting Period: 11/25/09 - 12/4/09

1. Introduction

1.1 Background

Site Number:	B5UX	**Contract Number:**	EP-55-08-02
D.O. Number:	0043	**Action Memo Date:**	
Response Authority:	CERCLA	**Response Type:**	Emergency
Response Lead:	EPA	**Incident Category:**	Removal Action
NPL Status:	Non NPL	**Operable Unit:**	
Mobilization Date:	11/30/2009	**Start Date:**	11/25/2009
Demob Date:		**Completion Date:**	

CERCLIS ID: **RCRIS ID:**
ERNS No.: **State Notification:** IDEM Notified
FPN#: **Reimbursable Account #:**

1.1.1 Incident Category

Inactive Production Facility

1.1.2 Site Description

The Site was formerly operated by Meridian Automotive Systems (MAS) to manufacture fiberglass auto body panels and other miscellaneous parts. MAS ceased manufacturing operations at the Site on or about July 15, 2009, when they declared bankruptcy. The facility was abandoned with production equipment in place. In addition, containerized wastes and materials were abandoned when operations ceased. Electricity is still active at the Site. Gas and water have been turned off to the facility. However, the fire suppression system remains active and full of fluid.

1.1.2.1 Location

The Site is located at 501 Northridge Drive, Shelbyville, Shelby County, Indiana. The geographical coordinates for the Site are Latitude 39.5454600 ° North and Longitude 85.7917300 ° West. The Site is approximately 48.9 acres in size and, contains a 354,018 square foot manufacturing building, guard shack, mold storage building, an outdoor waste storage area, and a pump house. The exterior of the manufacturing building is constructed of a slab concrete foundation, concrete and metal-siding walls, and a leaking roof.

1.1.2.2 Description of Threat

In November 2009, the Indiana Department of Environmental Management (IDEM) State Cleanup Branch requested that U.S. EPA Region 5 conduct a preliminary assessment of the Meridian Automotive Systems site. The request was based in part on requests from local officials, including the Shelbyville Fire Department, who had expressed concern that uncontained hazardous substances at this site presented a potential threat to the local population.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

During a site visit on November 25, 2009, U.S. EPA observed approximately 200 55-gallon drums containing flammables, paints, adhesives, corrosives, and unknown liquids; numerous 250-gallon totes with used oil and adhesives; several gas cylinders; process equipment, including 26 hydraulic presses; and four pits containing liquid/solid mixture. Two pits appear to be 350 feet by 30 feet and reportedly contain oil, water, and sludge. The third pit appears to be approximately 30 feet by 30 feet and reportedly contains paint sludge. The fourth pit was used for equipment washing. Approximately 150 drums are located outside the manufacturing building in a covered waste storage area; some of the drums are stacked and are in danger of falling. In addition, a 20-yard roll-off, containing “flash,” is located outside in an unsecured area. The facility was abandoned by MAS on or about July 15, 2009, when the company declared bankruptcy. The site building has been vacant since then with unrestricted access.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

The site is an abandoned automotive body parts manufacturing facility, located in Shelbyville, Shelby County, Indiana. The site was referred to U.S. EPA by IDEM. During a site visit, EPA observed approximately 200 55-gallon drums containing flammables, paints, adhesives, corrosives, and unknown liquids; numerous 250-gallon totes with used oil and adhesives; several gas cylinders; process equipment, including 26 hydraulic presses; and four pits containing

liquid/solid mixture. Two pits appear to be 350 feet by 30 feet and reportedly contain oil, water, and sludge. The third pit appears to be approximately 30 feet by 30 feet and reportedly contains paint sludge. The fourth pit was used for equipment washing. Approximately 150 drums are located outside the manufacturing building in a covered waste storage area; some of the drums are stacked and are in danger of falling. In addition, a 20-yard roll-off, containing "flash," is located outside in an unsecured area.

2.1.2 Response Actions to Date

EPA, START, and ERRS mobilized to the Site and began work on November 30, 2009. All drums found in the exterior hazardous waste storage shed were moved inside the building and properly staged in an open area on the main plant south floor. A thorough search of the building was conducted by START and ERRS to locate additional containerized waste. Containers were then moved to the staging area via forklifts and hand carts. START conducted sampling of select waste drums and containers on December 1 and submitted these samples for laboratory analysis. ERRS conducted waste profile sampling to confirm waste profiles previously maintained by Meridian Automotive Systems with several vendors. One press pit was drained using an attached oil-water separator. Oil was collected in a poly-tote and water was discharged through city sewers after notification to City of Shelbyville water treatment plant. Six hydraulic presses were drained of oil, which was collected in poly-totes. The Action Memorandum for the Site was drafted and submitted through the review process.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

The Meridian Automotive Systems is in bankruptcy, Delaware Case #09-12802, and has abandoned the Shelbyville facility. Meridian is abandoning the property to the Lender.

2.1.4 Progress Metrics

Waste Stream	***Medium***	***Quantity***	***Manifest #***	***Treatment***	***Disposal***
RQ, UN28909, Waste Mercury, 8, PGIII, (Mercury Switches), (D009), ERG#172	Solid wastes	1 7-gallon drum	000270443WAS		Heritage Environmental Services
UN2794, Batteries, Wet, Filled with acid, 8, PGIII, (Universal Waste- Lead Acid Batteries), ERG#154	Solid wastes	1 55-gallon drum	1135676-9000		Heritage Environmental Services
UN3028, Batteries, Dry, Containing Potassium Hydroxide Solid, 8, PGIII, (Universal Waste- Alkaline Battery), ERG#154	Solid wastes	8 32-gallon drums	1135676-9000		Heritage Environmental Services
Non-DOT / Non-RCRA Regulated	Solid wastes	1 200-pound box	1135676-9000		Heritage Environmental Services
Non-DOT / Non-RCRA Regulated	Solid wastes	1 7-gallon drum	1135676-15336		Lighting Resources
Non-DOT Universal Waste – Mercury Containing Lamps	Solid wastes	8 200-pound boxes	1135676-15289		Lighting Resources
Non-DOT Universal Waste – Mercury Containing Lamps	Solid wastes	6 100-pound boxes	1135676-15289		Lighting Resources
Non-DOT Universal Waste – Mercury Containing Lamps	Solid wastes	1 150-pound box	1135676-15289		Lighting Resources
Non-DOT / Non-RCRA Regulated	Solid wastes	1 20-yard rolloff	1135878-15524		Roachdale Landfill

2.2 Planning Section

2.2.1 Anticipated Activities

- Drummed and containerized waste will be shipped off site for disposal.
- Arrangements have been made with several gas cylinder vendors to pick-up gas cylinders found on Site.

2.2.1.1 Planned Response Activities

If the Action Memorandum is approved, Site work will resume on December 14, 2009.

2.2.1.2 Next Steps

If the Action Memorandum is approved, Site work will resume on December 14, 2009. Next steps will consist of emptying hydraulic presses of oil and transporting waste off-site for disposal.

2.2.2 Issues

- The 354,018 square foot main plant building remains intact, but the flat roof has several areas where rainwater has been leaking in and pooling on floor surfaces, which has caused one person on-site to slip.
- EPA has reached an agreement with the power provider to keep electric service to the plant active in order to facilitate Site work.
- The plant fire suppression system and attached water storage tank remains full.

2.3 Logistics Section

Once the Action Memorandum is approved, U.S. EPA, ERRS, and START will remobilize to the Site to continue work.

2.4 Finance Section

2.4.1 Narrative

The Action Memorandum is in review and costs have not been finalized. To date, $60,000 has been authorized.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
ERRS - Cleanup Contractor	$60,000.00	$24,565.75	$35,434.25	59.06%
START	$20,000.00	$0.00	$20,000.00	100.00%
Intramural Costs				
Total Site Costs	$80,000.00	$24,565.75	$55,434.25	69.29%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

2.5 Safety Officer

On November 30, 2009, the site health and safety plan was finalized, and has been signed by site personnel. START established hot zone air monitoring locations using a MultiRAE multi-gas meter. The leaking roof has created slick floor conditions, which has caused one person on-site to slip.

2.6 Liaison Officer

Not applicable.

2.7 Information Officer

2.7.1 Public Information Officer

Not applicable.

2.7.2 Community Involvement Coordinator

Not applicable.

3. Participating Entities

3.1 Unified Command

Not applicable.

3.2 Cooperating and Assisting Agencies

Indiana Department of Environmental Management (IDEM)
Shelbyville Fire Department (SFD)

4. Personnel On Site

2 EPA OSC
6 ERRS – EQM and consultant
1 START – Weston Solutions

5. Definition of Terms

DOT – Department of Transporation
ERRS – Emergency and Rapid Response Services
IDEM – Indiana Department of Environmental Management
MAS – Meridian Automotive Systems
OSC – On-Scene Coordinator
RCRA – Resource Conservation and Recovery Act
SFD – Shelbyville Fire Department
START – Superfund Technical Assessment and Response Team
U.S. EPA – United States Environmental Protection Agency

6. Additional sources of information

6.1 Internet location of additional information/reports

For additional information, please refer to “Documents” on www.epaosc.org/.

6.2 Reporting Schedule

The next PolRep will be submitted at a date to be determined.

7. Situational Reference Materials

For additional information, please refer to “Documents” on www.epaosc.org/.

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Meridian Automotive Systems Shelbyville - Removal Polrep

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: **POLREP #2**
Progress POLREP
Meridian Automotive Systems Shelbyville

Shelbyville, IN
Latitude: 39.5454600 Longitude: -85.7917300

To: Shelly Lam, U.S. Environmental Protection Agency
Verneta Simon, U.S. Environmental Protection Agency
Jeff Bryniarski, Weston Solutions
Linda Nachowicz, U.S. Environmental Protection Agency
Jason El-Zein, U.S. Environmental Protection Agency
Charlie Gebien, U.S. Environmental Protection Agency
Mark Durno, U.S. Environmental Protection Agency
Richard Murawski, U.S. Environmental Protection Agency
Mila Bensing, U.S. Environmental Protection Agency
David Chung, U.S. Environmental Protection Agency
Tim Johnson, IDEM
Dan Chesterson, IDEM
Bill Myers, IDEM
Tony Logan, City of Shelbyville
Harry Atkinson, IDEM
Max Michael, IDEM
Ken McDaniel, IDEM
Eileen Furey, U.S. Environmental Protection Agency

From: Shelly Lam and Verneta Simon, On-Scene Coordinator
Date: 12/14/2009
Reporting Period: 12/5/2009 - 12/14/2009

1. Introduction

1.1 Background

Site Number:	B5UX	**Contract Number:**	EP-55-08-02
D.O. Number:	0043	**Action Memo Date:**	
Response Authority:	CERCLA	**Response Type:**	Emergency
Response Lead:	EPA	**Incident Category:**	Removal Action
NPL Status:	Non NPL	**Operable Unit:**	
Mobilization Date:	11/30/2009	**Start Date:**	11/25/2009
Demob Date:		**Completion Date:**	

CERCLIS ID: **RCRIS ID:**
ERNS No.: **State Notification:** IDEM Notified
FPN#: **Reimbursable Account #:**

1.1.1 Incident Category

Inactive Production Facility

1.1.2 Site Description

See POLREP #1.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

See POLREP #1

2.1.2 Response Actions to Date

U.S. EPA demobilized from the Site on December 4, 2009. During this reporting period, EPA has maintained 24-hour security. EPA re-mobilized to the Site on December 14, 2009, and checked the facility. Puddles of water were noted in several areas indicating a leaking roof. Some waste remains stored on-site pending disposal. MAS contacted U.S. EPA regarding potential buyers for the property. At this time, EPA has halted operations awaiting response from MAS and potential buyers.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

The Meridian Automotive Systems has two potential buyers for this property.

2.2 Planning Section

2.2.1 Anticipated Activities

- EPA will maintain 24-hour security until fence is erected in front of guard shack.
- ERRS will contract to have fencing installed.
- EPA will shut off power to the facility.
- EPA will provide a summary of materials stored on-site to the Shelbyville Fire Department.

2.2.1.1 Planned Response Activities

EPA is awaiting response from MAS and potential buyers.

2.2.1.2 Next Steps

No further action is planned at this time.

2.2.2 Issues

- The 354,018 square foot main plant building remains intact, but the flat roof has several areas where rainwater has been leaking in and pooling on floor surfaces, which has caused one person

on-site to slip.

- MAS and potential buyers have been made aware that the plant fire suppression system and attached water storage tank remains full.

2.3 Logistics Section

Once a purchaser is identified, U.S.EPA will work with the new buyer to resolve the environmental issues. In the meantime, the latest activity of installing a fence and turning off the electricty was discussed with Robbie Stonebraker, Shelbyville Fire Inspector.

2.4 Finance Section

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
ERRS - Cleanup Contractor	$60,000.00	$27,450.00	$32,550.00	54.25%
START	$20,000.00	$0.00	$20,000.00	100.00%
Intramural Costs				
Total Site Costs	$80,000.00	$27,450.00	$52,550.00	65.69%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

2.5 Safety Officer

Not applicable.

2.6 Liaison Officer

Not applicable.

2.7 Information Officer

2.7.1 Public Information Officer

Not applicable.

2.7.2 Community Involvement Coordinator

Not applicable.

3. Participating Entities

3.1 Unified Command

Not applicable.

3.2 Cooperating and Assisting Agencies

Indiana Department of Environmental Management (IDEM)
Shelbyville Fire Department (SFD)

4. Personnel On Site

2 EPA OSC
2 ERRS – EQM and consultant

5. Definition of Terms

DOT – Department of Transporation
ERRS – Emergency and Rapid Response Services
IDEM – Indiana Department of Environmental Management
MAS – Meridian Automotive Systems
OSC – On-Scene Coordinator
RCRA – Resource Conservation and Recovery Act
SFD – Shelbyville Fire Department
START – Superfund Technical Assessment and Response Team
U.S. EPA – United States Environmental Protection Agency

6. Additional sources of information

6.1 Internet location of additional information/reports

For additional information, please refer to “Documents” on www.epaosc.org/.

6.2 Reporting Schedule

The next PolRep will be submitted at a date to be determined.

7. Situational Reference Materials

For additional information, please refer to “Documents” on www.epaosc.org/.

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Meridian Automotive Systems Shelbyville - Removal Polrep

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: **POLREP #3**
Progress
Meridian Automotive Systems Shelbyville

Shelbyville, IN
Latitude: 39.5454600 Longitude: -85.7917300

To: Shelly Lam, U.S. Environmental Protection Agency
Verneta Simon, U.S. Environmental Protection Agency
Jeff Bryniarski, Weston Solutions
Linda Nachowicz, U.S. Environmental Protection Agency
Jason El-Zein, U.S. Environmental Protection Agency
Charlie Gebien, U.S. Environmental Protection Agency
Mark Durno, U.S. Environmental Protection Agency
Mila Bensing, U.S. Environmental Protection Agency
David Chung, U.S. Environmental Protection Agency
Tim Johnson, IDEM
Dan Chesterson, IDEM
Bill Myers, IDEM
Tony Logan, City of Shelbyville
Harry Atkinson, IDEM
Max Michael, IDEM
Ken McDaniel, IDEM
Carl Norman, U.S. Environmental Protection Agency
Jeff Cahn, U.S. Environmental Protection Agency
Sally Jansen, U.S. EPA Region V
Rick Mehl, Weston Solutions
Andrea Robertson, Indiana Finance Authority
Kevin Hughes, PE Engineers

From: Shelly Lam and Verneta Simon, On-Scene Coordinator
Date: 4/26/2010
Reporting Period: 12/14/2009-4/14/2010

1. Introduction

1.1 Background

Site Number:	B5UX	**Contract Number:**	EP-55-08-02
D.O. Number:	0043	**Action Memo Date:**	1/11/2010
Response Authority:	CERCLA	**Response Type:**	Time-Critical
Response Lead:	EPA	**Incident Category:**	Removal Action
NPL Status:	Non NPL	**Operable Unit:**	
Mobilization Date:	11/30/2009	**Start Date:**	11/25/2009
Demob Date:		**Completion Date:**	

CERCLIS ID:	**RCRIS ID:**
ERNS No.:	**State Notification:** IDEM Notified
FPN#:	**Reimbursable Account #:**

1.1.1 Incident Category

Inactive Production Facility

1.1.2 Site Description

See POLREPs #1 and 2.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

See POLREP #1

2.1.2 Response Actions to Date

On March 25, 2010, this facility was purchased by Escalade Group, LLC (Escalade), which is owned by Mr. James Keith Sharp of Huntsville, Alabama. On March 26, OSC Lam and Shelbyville Fire Department visited this facility and determined Escalade had been working in the building 3 weeks prior to March 25, and had sub-leased space to Wal-Mart. Shelbyville Fire Department cited the facility with 19 fire code violations. During the visit, OSC Lam noted lack of security at the facility, the presence of a child and other workers who appeared to be unaware of the presence of hazardous substances on-site, and that hazardous substances, pollutants, and contaminants previously staged by EPA had been relocated throughout the facility and were improperly staged.

OSC Lam sent Mr. Sharp a letter detailing immediate steps that Escalade should take and requested written access. On March 30, OSC Lam, Shelbyville Fire Department, and IDEM met with Mr. Sharp at the facility and re-iterated actions to be taken at the Site regarding staging and disposal of the waste.

On April 13, 2010, OSC Lam and START met with Mr. Sharp and representatives of Escalade at the site to oversee the proper staging and segregation of drums. EPA conducted a drum inventory and compared it to the original drum log compiled during the site assessment. Approximately 5 drums of rags and discarded personal protective equipment (PPE) on the original inventory could not be accounted for. All drums of corrosives, flammables, oil, and product were accounted for.

On April 14, 2010, Safety Kleen transported approximately 10,000 gallons of oil off-site to their facility in East Chicago, Indiana for recycling.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

On April 5, 2010, a general notice of potential liability and request for information were sent via e-mail and UPS to Mr. Sharp, which required a verbal response by April 7 and also included the two former Meridian

facilities in Grabill, Indiana and Huntington, Indiana. Mr. Sharp, Dale W. Eikenberry, Mr. Sharp's Counsel, U.S. EPA, and the Shelbyville Fire Department had a conference call in which Mr. Eikenberry stated that his client was not ready to respond since he was in the process of trying to retain an attorney that had Federal environmental experience. Therefore, U.S. EPA granted Mr. Sharp's request for more time to respond. Specificialy, Mr. Sharp's response to our request for information is due by April 20, 2010. Currently, Safety Kleen is assessing this facility. On April 9, IDEM, U.S. EPA, and the Indiana Attorney General had a conference call to update each entity about their respective activities.

See POLREP # 1. On March 25, 2010, this facility was purchased by Escalade Group, LLC (Escalade), which is owned by Mr. James Keith Sharp of Huntsville, Alabama. On March 26, OSC Lam and Shelbyville Fire Department visited this facility and determined Escalade had been working in the building 3 weeks prior to March 25, and had sub-leased space to Wal-Mart. Shelbyville Fire Department cited the facility with 19 fire code violations. During the visit, OSC Lam noted lack of security at the facility, the presence of a child and other workers who appeared to be unaware of the presence of hazardous substances on-site, and that hazardous substances, pollutants, and contaminants previously staged by EPA had been relocated throughout the facility and were improperly staged. OSC Lam sent Mr. Sharp a letter detailing immediate steps that Escalade should take and requested written access. On March 30, OSC Lam, Shelbyville Fire Department, and IDEM met with Mr. Sharp at the facility and re-iterated actions to be taken at the Site regarding staging and disposal of the waste. On April 13, 2010, OSC Lam and START met with Mr. Sharp and representatives of Escalade at the site to oversee the proper staging and segregation of drums. EPA conducted a drum inventory and compared it to the original drum log compiled during the site assessment. Approximately 5 drums of rags and discarded personal protective equipment (PPE) on the original inventory could not be accounted for. All drums of corrosives, flammables, oil, and product were accounted for.

2.2 Planning Section

2.2.1 Anticipated Activities

2.2.1.1 Planned Response Activities

EPA will continue to coordinate with Mr. Sharp regarding the off-site disposal of waste.

2.2.1.2 Next Steps

Safety Kleen is anticipated to remove drums and containers of hazardous waste on April 19, 2010.

2.2 Issues

None anticipated at this time.

2.3 Logistics Section

2.4 Finance Section

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
ERRS - Cleanup Contractor	$60,000.00	$50,929.24	$9,070.76	15.12%
START	$20,000.00	$0.00	$20,000.00	100.00%
Intramural Costs				
Total Site Costs	$80,000.00	$50,929.24	$29,070.76	36.34%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

2.5 Safety Officer

Not applicable.

2.6 Liaison Officer

Not applicable.

2.7 Information Officer

2.7.1 Public Information Officer

Not applicable.

2.7.2 Community Involvement Coordinator

Not applicable.

3. Participating Entities

3.1 Unified Command

Not applicable.

3.2 Cooperating and Assisting Agencies

Indiana Department of Environmental Management (IDEM)
Shelbyville Fire Department (SFD)

4. Personnel On Site

5. Definition of Terms

DOT – Department of Transporation
ERRS – Emergency and Rapid Response Services
IDEM – Indiana Department of Environmental Management
MAS – Meridian Automotive Systems
OSC – On-Scene Coordinator
RCRA – Resource Conservation and Recovery Act
SFD – Shelbyville Fire Department
START – Superfund Technical Assessment and Response Team
U.S. EPA – United States Environmental Protection Agency

6. Additional sources of information

6.1 Internet location of additional information/reports

For additional information, please refer to “Documents” on www.epaosc.org/.

6.2 Reporting Schedule

The next PolRep will be submitted at a date to be determined.

7. Situational Reference Materials

For additional information, please refer to “Documents” on www.epaosc.org/.

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Meridian Automotive Systems Shelbyville - Removal Polrep

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: **POLREP #4**
Progress POLREP
Meridian Automotive Systems Shelbyville

Shelbyville, IN
Latitude: 39.5454600 Longitude: -85.7917300

To: Linda Nachowicz, U.S. Environmental Protection Agency
Jason El-Zein, U.S. Environmental Protection Agency
Charlie Gebien, U.S. Environmental Protection Agency
Mark Durno, U.S. Environmental Protection Agency
Mila Bensing, U.S. Environmental Protection Agency
David Chung, U.S. Environmental Protection Agency
Tony Logan, City of Shelbyville
Harry Atkinson, IDEM
Max Michael, IDEM
Carl Norman, U.S. Environmental Protection Agency
Jeff Cahn, U.S. Environmental Protection Agency
Sally Jansen, U.S. EPA Region V
Andrea Robertson, Indiana Finance Authority
Michael Chezik, Department of Interior
Jeff Kelley, U.S. EPA
William Messenger, U.S. EPA

From: Shelly Lam and Verneta Simon, On-Scene Coordinator
Date: 5/27/2010
Reporting Period: April 27 - May 27, 2010

1. Introduction

1.1 Background

Site Number:	B5UX	**Contract Number:**	EP-55-08-02
D.O. Number:	0043	**Action Memo Date:**	1/11/2010
Response Authority:	CERCLA	**Response Type:**	Time-Critical
Response Lead:	EPA	**Incident Category:**	Removal Action
NPL Status:	Non NPL	**Operable Unit:**	
Mobilization Date:	11/30/2009	**Start Date:**	11/25/2009
Demob Date:		**Completion Date:**	
CERCLIS ID:		**RCRIS ID:**	

ERNS No.: **State Notification:** IDEM Notified
FPN#: **Reimbursable Account #:**

1.1.1 Incident Category

Inactive Production Facility

1.1.2 Site Description

See previous POLREPs.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

See previous POLREPs.

2.1.2 Response Actions to Date

As of April 22, 2010, the current property owner and his contractor, Safety-Kleen, provided disposal documentation for used oil and paint-related waste material. According to Safety-Kleen, the other waste streams have been profiled, but Escalade and Safety-Kleen have not submitted disposal documentation to EPA.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

See POLREP # 1. On March 25, 2010, this facility was purchased by Escalade Group, LLC (Escalade), which is owned by Mr. James Keith Sharp of Huntsville, Alabama.

2.1.4 Progress Metrics

The generator waste report provided by Safety-Kleen is posted in the Documents section of the website.

2.2 Planning Section

2.2.1 Anticipated Activities

2.2.1.1 Planned Response Activities

EPA will continue to coordinate with Escalade regarding the off-site disposal of waste. EPA has postponed a site visit scheduled on May 21 because both OSCs were responding to emergencies elsewhere.

2.2.1.2 Next Steps

Escalade and Safety-Kleen will submit documentation to EPA verifying the disposal of waste materials stored on-site. EPA will reschedule the site visit.

2.2 Issues

None anticipated at this time.

2.3 Logistics Section

NA

2.4 Finance Section

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
ERRS - Cleanup Contractor	$60,000.00	$51,840.46	$8,159.54	13.60%
START	$20,000.00	$0.00	$20,000.00	100.00%
Intramural Costs				
Total Site Costs	$80,000.00	$51,840.46	$28,159.54	35.20%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

2.5 Safety Officer

NA

2.6 Liaison Officer

NA

2.7 Information Officer

2.7.1 Public Information Officer

NA

2.7.2 Community Involvement Coordinator

NA

3. Participating Entities

3.1 Unified Command

NA

3.2 Cooperating and Assisting Agencies

Indiana Department of Environmental Management (IDEM)

Shelbyville Fire Department (SFD)

4. Personnel On Site

NA

5. Definition of Terms

ERRS	Emergency and Rapid Response Services
IDEM	Indiana Department of Environmental Management
NA	Not applicable
OSC	On-Scene Coordinator
POLREP	Pollution Report
SFD	Shelbyville Fire Department
START	Superfund Technical Assessment and Response Team
U.S. EPA	United States Environmental Protection Agency

6. Additional sources of information

6.1 Internet location of additional information/reports

For additional information, please refer to “Documents” on www.epaosc.org/.

6.2 Reporting Schedule

The final POLREP will be submitted after the site visit is conducted.

7. Situational Reference Materials

For additional information, please refer to “Documents” on www.epaosc.org/.

ATTACHMENT D

Phase II Environmental Site Assessment /
Limited Subsurface Investigation
Former Meridian Automotive Site
501 Northridge Drive
Shelbyville, Indiana
Patriot Project No. 1-11-0352

PREPARED FOR:

Mr. Sam Saran
Saran Industries, LP
820 South Post Road
Indianapolis, Indiana 46239

PREPARED BY:

Patriot Engineering and
Environmental, Inc.
6330 East. 75th Street, Suite 216
Indianapolis, Indiana 46250

April 21, 2011

PATRIOT ENGINEERING
and Environmental, Inc.
Consulting Environmental, Geotechnical
and Construction Materials Engineers

April 21 2011

Mr. Sam Saran
Saran Industries, LP
820 South Post Road
Indianapolis, Indiana 46239

RE: **Phase II Environmental Site Assessment /**
Limited Subsurface Investigation
Former Meridian Automotive Site
501 Northridge Drive
Shelbyville, Indiana
Patriot Project No. 1-11-0352

Dear Mr. Saran:

Patriot Engineering and Environmental, Inc. (*Patriot*) has completed a Phase II Environmental Assessment (Phase II ESA) for the above-referenced site. This report details the subsurface investigation activities conducted by *Patriot* and presents our findings and conclusions relative to the Site.

We appreciate the opportunity to have provided you these services. If you have any questions regarding this report, or if we can be of further service, please do not hesitate to contact any of the undersigned.

Sincerely,

***Patriot* Engineering and Environmental, Inc.**

Gary Fricke, LPG
Senior Project Manager
Environmental Group

Mary Scanlan Hogan
Senior Staff Scientist
Environmental Group

Letter of Transmittal

TABLE OF CONTENTS

Table of Contents **Page**

Tables

Appendices

PHASE II ENVIRONMENTAL ASSESSMENT / LIMITED SUBSURFACE INVESTIGATION

Former Meridian Automotive Site
501 Northridge Drive
Shelbyville, Indiana
Patriot Project No. 1-11-0352

1.0 INTRODUCTION

Patriot Engineering and Environmental, Inc. (*Patriot)* has prepared this Phase II Environmental Assessment (Phase II ESA) / Limited Subsurface Investigation report for 501 Northridge Drive in Shelbyville, Indiana (hereafter referred to as the Site). This Phase II ESA report was prepared on the behalf of Mr. Sam Saran of Saran Industries, LP regarding subsurface investigation activities at the Site in response to a Phase I Environmental Site Assessment (Phase I ESA-AAI) completed by Patriot dated March 22, 2011. This Phase II ESA report will discuss activities conducted by *Patriot* to delineate the extent of possible soil and groundwater impacts on the Site.

2.0 BACKGROUND

The Phase I ESA-AAI report indicated that at one time three oil above ground storage tanks (ASTs), one 6,000-gallon and two 2,000-gallon tanks, had been operated at the Site. Concrete foundations for two ASTs were observed south of the facility. The gravel surface beneath the area that would have been occupied by the ASTs showed evidence of some minor spillage.

Based on the Phase I ESA-AAI completed by *Patriot* on March 22, 2011, the following items were noted:

- Based upon the IDEM Inspection Letter provided by Mr. Saran and observations made during the site visit, there is still considerable clean-up and removal of substances and containers from the Site in order to comply with the stipulations of the IDEM inspection. *Patriot* recommends a subsurface soil and groundwater

investigation be conducted as soon as the Site achieves compliance with IDEM. Areas proposed for investigation include the press pit, hazardous materials room, outside hazardous waste accumulation area, paint mixing room and the outdoor building east of main building.

- Concrete foundations for two ASTs were observed south of the facility. The gravel surface beneath the area that would have been occupied by the ASTs showed evidence of some minor spillage. *Patriot* recommends that sampling be conducted at the Site to determine whether soil and/or groundwater at the Site have been impacted by these former ASTs.

2.1 Physical Setting

The Site is in Section 31, Township 13 North, Range 7 East in Shelbyville, Shelby County, Indiana as shown on the 1994 United States Geological Survey (USGS), Shelbyville, Indiana Topographic Quadrangle map presented in Figure 1 (Attachment A). The Site is at an elevation of about 770 to 780 feet above mean sea level (ft above msl). Site and property features are also shown in the aerial photograph presented in Figure 2 (Attachment A).

2.2 Regulatory Setting

The RISC is a non-rule policy used by the IDEM to establish closure levels for sites undergoing environmental cleanup or closure under IDEM's authority. Under RISC, default closure levels (DCLs) have been established for industrial/commercial land usage and for residential/non-commercial land usage. Within the regulated community, the RISC DCLs are used as guidance to determine whether additional investigation or remediation is required at a particular site. In lieu of any other available cleanup or action standards, *Patriot* has opted to compare the laboratory analytical results from this FSI to the RISC Residential Default Closure Levels (RDCLs) and RISC IDCLs for both residential and industrial criteria. Since the Site will be used for commercial purposes, the RISC IDCLs would be generally applicable to any environmental cleanup

or closures conducted at the Site and are the primary standard against which the Site data are evaluated.

3.0 PHASE II ENVIRONMENTAL ASSESSMENT ACTIVITIES

Patriot mobilized to the Site to initiate Phase II ESA activities on February 1, 2011. During this investigation, *Patriot* advanced six soil borings using a Geoprobe® Direct Push Sampling System (Geoprobe®) in order to collect soil and groundwater samples in the accessible areas of the Site (both interior and exterior locations).

The soil borings, depending on location and encountered geology, were advanced to depths between 15 and 30 feet below surface grade (ft bsg) or refusal was encountered. Two groundwater samples were collected from the uppermost saturated zone encountered during drilling. The groundwater samples were collected using standard industry methods. Soil samples were screened for odors, staining, and the presence of volatile vapors using a photoionization detector (PID).

Patriot submitted a total of six soil samples and two water samples to the laboratory for analysis. A total of two Quality Assurance/Quality Control (QA/QC) samples were also submitted for analysis. The soil and groundwater samples collected for laboratory analysis were labeled and stored in an ice-filled cooler until delivered to the analytical laboratory. All sample custody was documented with the necessary paper work which includes the appropriate chain-of-custody.

3.1 Soil Borings and Soil Sampling

To address potential concerns at the subject Site, Patriot advanced six soil borings using a Geoprobe® Direct Push Sampling Device. These boring locations are provided in Figure 3 (Appendix A).

All sampling was performed in accordance with standard United States Environmental Protection Agency (US EPA) and Indiana Department of Environmental Management (IDEM) protocols for environmental investigations. All equipment coming into contact

with the samples designated for analysis was decontaminated before use. Decontamination of sampling equipment involves cleaning with non-phosphate detergent wash and distilled or de-ionized water rinses.

Collection of Geoprobe® soil samples utilized direct-push technology. Soil samples from the borings were obtained using a two-inch diameter, stainless steel core barrel sampler equipped with an acetate liner. Soil samples were collected by pushing the core sampler to the desired depth or until refusal or groundwater was encountered. The sampler was then recovered with a section of undisturbed soil collected within the acetate liner inside the barrel. A new acetate liner was used for each sample collection. Subsequent samples were collected by lowering the sampler in the previously sampled hole and driving the sampler to a deeper target zone.

Following collection, the lithology of each soil sample was visually classified according to the Unified Soil Classification System and field screened for odor, staining and the presence of volatile compounds using headspace analysis. The lithology from each boring was recorded along with the field screening results. The field screening procedure is typically used to determine if elevated levels of fuel or solvents are present in the soil samples. A photoionization detector (PID) was used to measure the concentration of organic vapors (TPVs) emitted from the samples. It should be noted that headspace analysis is used for comparative purposes only and that TPVs recorded in the field do not indicate actual volatile organic compound (VOC) or total petroleum hydrocarbon (TPH) concentrations reported by laboratory analyses. In order to prepare the sample for headspace analysis, the sample was contained in a sealed zip-lock bag, the concentration of TPVs within the bag was allowed to equilibrate for approximately five minutes, the bag was punctured with the PID monitoring probe, and the maximum instrument response was recorded in the field notes as the TPV level. The results of the field screening activities are provided on soil boring logs (Appendix B).

On the basis of odor, staining, and TPV response, soil samples were selected from each boring at depths exhibiting the greatest potential for impacts for laboratory analysis. For purposes of this Phase II ESA, a total of six soil samples were submitted for laboratory analysis. The soil analytical results were compared to residential and industrial default closure levels listed in the Indiana Risk Integrated System of Closure (RISC) Technical Guidance Resource Document (dated February 15, 2001; updated May 1, 2009) to the following parameters:

- Volatile organic compounds (VOCs) using US EPA Method 8260 and
- Semi- volatile organic compounds (SVOCs) using US EPA Method 8271.

Samples selected for potential laboratory analysis were placed in appropriate sample containers, which were labeled, placed on ice in a cooler, and delivered to Pace Analytical using the appropriate chain-of-custody documents. The forms used to log the custody of the laboratory samples have been included with the applicable laboratory reports (Appendix C). Following the advancement of the soil boring, the boreholes were backfilled to the surface with granular bentonite and asphalt or concrete patches depending on the boring location.

3.2 Groundwater Sampling

A total of two groundwater samples were collected during the Phase II ESA activities. *Patriot* collected groundwater samples from borings B-1 and B-3. The groundwater sampling locations are provided in Figure 3 (Appendix A). The groundwater analytical results were compared to residential and industrial default closure levels listed in the Indiana RISC Technical Guidance Resource Document to the following parameters:

- Volatile organic compounds (VOCs) using US EPA Method 8260 and
- Semi- volatile organic compounds (SVOCs) using US EPA Method 8271.

The groundwater samples were placed directly into their appropriate sampling containers, which were labeled, placed on ice in a cooler, and delivered to Pace Analytical using the appropriate chain-of-custody documents. The forms used to log

the custody of the laboratory samples have been included with the applicable laboratory reports (Appendix C).

4.0 ANALYTICAL RESULTS

During the Phase II ESA activities, a total of six borings were completed on Site. *Patriot* collected groundwater samples from two soil boring locations. Soil analyses were used to determine potential impacts at the Site and groundwater analysis were used to determine potential off-Site impacts. These results are discussed below. The soil boring locations are illustrated in Figure 3 (Appendix A).

A total of six soil and two groundwater samples were collected for analytical analysis and the results were compared to the IDEM RISC Residential Default Closure Levels (RDCLs) and Industrial Default Closure Levels (IDCLs). The laboratory analytical results for soil are summarized in Table 1 and groundwater analytical results are summarized in Table 2. The Reports of Laboratory Analyses are included as Appendix C.

4.1 Soil Analytical Results

During the Phase II ESA activities, a total of six soil samples were collected on Site. Five soil borings were advanced in the building exterior (B-1, B-2, B-3, B-5, B-6) and one soil boring was advanced in the interior of the building (B-4). These sampling locations are illustrated in Figure 3 (Appendix A). Analytical results from the six soil samples are provided in Table 1.

Table 1: Soil Analytical Results

Sample	Benzene (*ug/kg*)	Toluene(*ug/kg*)	Ethylbenzene(*ug/kg*)	Xylene (Total) (*ug/kg*)	MTBE (*ug/kg*)	Tetrachloroethene(*ug/kg*)	Trichloroethene(*ug/kg*)	Naphthalene(*ug/kg*)	Acetone(*ug/kg*)
B-1	<5.9	<5.9	<5.9	<11.8	<5.9	<5.9	<5.9	<5.9	<118
B-2	<6.1	<6.1	<6.1	<12.2	<6.1	<6.1	<6.1	<6.1	<122
B-3	<6.4	<6.4	<6.4	<12.7	<6.4	<6.4	<6.4	<6.4	<127
B-4	<6.2	<6.2	<6.2	<12.4	<6.2	<6.2	<6.2	<6.2	193
B-5	<6.2	<6.2	<6.2	<12.3	<6.2	<6.2	<6.2	<6.2	128
B-6	<6.2	<6.2	<6.2	<12.3	<6.2	<6.2	<6.2	<6.2	137
Duplicate (B-4)	<6.2	<6.2	<6.2	<12.3	<6.2	<6.2	<6.2	<6.2	193
RISC RDCL	**34**	**12,000**	**13,000**	**170,000**	**180**	**58**	**57**	**700**	**28,000**
RISC IDCL	**350**	**96,000**	**160,000**	**170,000**	**3,200**	**640**	**350**	**170,000**	**370,000**

Notes:

ug/kg = microgram per kilogram
ND = analyte concentration below laboratory detection limit
RISC RDCL = Indiana Risk Integrated System of Closure Residential Default Closure Limit (dated February 15, 2001; updated May 1, 2009)
RISC IDCL = Indiana Risk Integrated System of Closure Industrial Default Closure Limit (dated February 15, 2001; updated May 1, 2009)
Bold values are above RISC RDCLs
Bold and shaded values are above RISC IDCLs

All VOC and SVOC analytes were below laboratory detection limits for soil samples collected from B-1 through B-6 with the exception of acetone which is below the RISC RDCL and IDCL.

4.2 Groundwater Analytical Results

A total of two groundwater samples were collected during the Phase II ESA. *Patriot* collected groundwater samples from borings B-1 and B-3. The groundwater sampling locations are provided in Figure 3 (Appendix A) and analytical results are summarized in Table 2.

Table 2: Groundwater Analytical Results

Sample	Benzene *(ug/L)*	Toluene*(ug/L)*	Ethylbenzene*(ug/L)*	Xylene (Total) *(ug/L)*	MTBE *(ug/L)*	Tetrachloroethene*(ug/L)*	Trichloroethene*(ug/L)*	Naphthalene*(ug/L)*	Acetone*(ug/L)*
B-1 GW	<5.0	<5.0	<5.0	<10.0	<4.0	<5.0	<5.0	<1.0	<100
B-3 GW	<5.0	<5.0	<5.0	<10.0	<4.0	<5.0	<5.0	<1.0	<100
Duplicate (B-1 GW)	<5.0	<5.0	<5.0	<10.0	<4.0	<5.0	<5.0	NA*	<100
RISC RDCL	**5**	**1,000**	**700**	**10,000**	**40**	**5**	**5**	**8.3**	**6,900**
RISC IDCL	**52**	**8,200**	**10,000**	**20,000**	**720**	**55**	**31**	**2,000**	**92,000**

Notes:

ug/L = microgram per liter
ND = analyte concentration below laboratory detection limit
RISC RDCL = Indiana Risk Integrated System of Closure Residential Default Closure Limit (dated February 15, 2001; updated May 1, 2009)
RISC IDCL = Indiana Risk Integrated System of Closure Industrial Default Closure Limit (dated February 15, 2001; updated May 1, 2009)
Bold values are above RISC RDCLs
Bold and shaded values are above RISC IDCLs

Analyte concentrations for groundwater samples B-1 GW and B-3 GW were below laboratory detect limits for VOCs and SVOCs.

5.0 CONCLUSIONS AND RECOMMENDATIONS

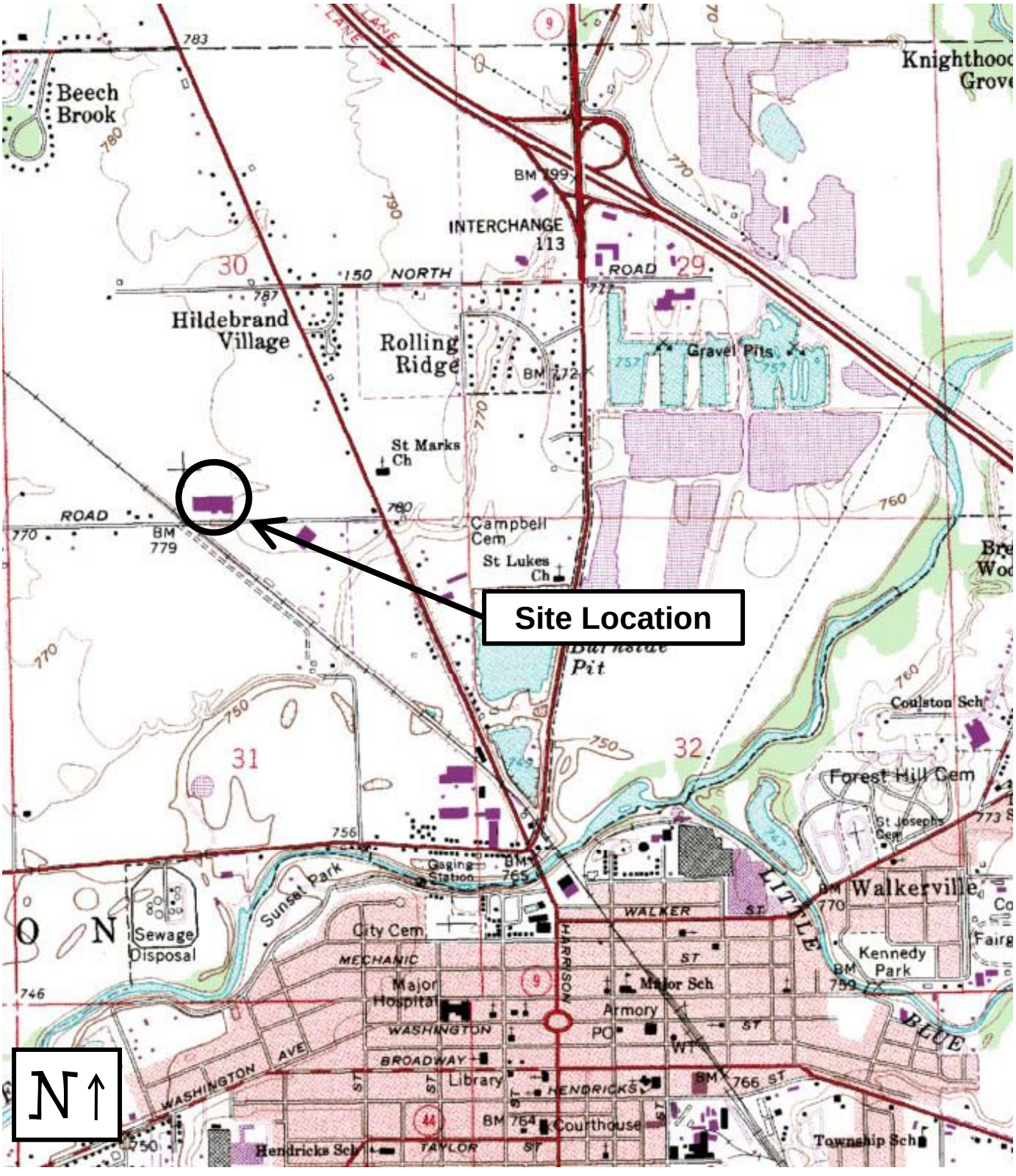
During the Phase II ESA, six borings were advanced on Site. A total of six soil and two groundwater samples were collected for laboratory analysis. Soil and groundwater analytical results were compared to the RISC RDCLs and IDCLs for VOCs and SVOCs.

No evidence of soil or groundwater impacts was found in during the Phase II ESA with the exception of acetone. Acetone was detected in soil samples B-4 through B-6 and was below the RISC RDCL or IDCL.

Based on the results of the Phase II ESA, *Patriot* believes no additional investigation is warranted for the Former Meridian Automotive Site.

APPENDIX A

FIGURES



PATRIOT ENGINEERING and Environmental, Inc.

Consulting Environmental, Geotechnical and Construction Materials Engineers

Site Vicinity Map
Former Meridian Automotive Facility
501 Northridge Drive
Shelbyville, Indiana

Project No. 1-11-0352

Figure 1

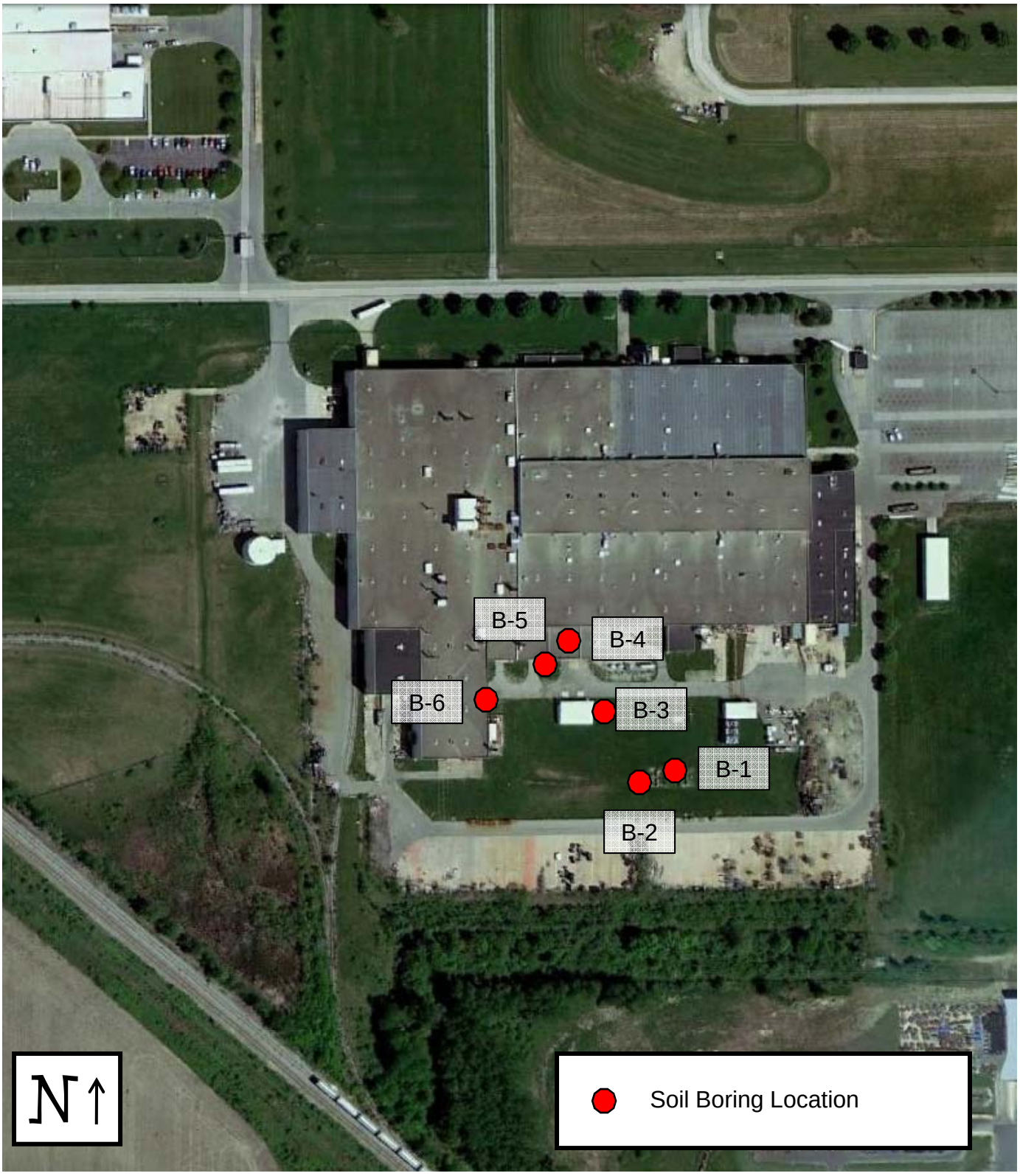
PATRIOT ENGINEERING and Environmental, Inc.

Consulting Environmental, Geotechnical and Construction Materials Engineers

Site Layout Map
Former Meridian Automotive Facility
501 Northridge Drive
Shelbyville, Indiana

Project No. 1-11-0352

Figure 2



PATRIOT ENGINEERING and Environmental, Inc.

Consulting Environmental, Geotechnical and Construction Materials Engineers

Soil Boring Location Map
Former Meridian Automotive Facility
501 Northridge Drive
Shelbyville, Indiana

Project No. 1-11-0352

Figure 3

APPENDIX B

SOIL BORING LOGS

PATRIOT ENGINEERING AND ENVIRONMENTAL, INC.
6330 E. 75th Street, Indianapolis, Indiana 46250
Phone: (317) 576-8058 Fax: (317) 576-1965

RECORD OF SUBSURFACE INVESTIGATION

Please see Figure 3 for Soil Boring Location

BORING IDENTIFICATION: B-1

PAGE: 1 of 1

CLIENT: Saran Industries – Former Meridian Automotive

PROJECT NAME: Phase II ESA / LSI

SITE LOCATION: 501 Northridge Dr, Shelbyville, IN

PROJECT NUMBER: 1-11-0352

Prepared by: Mary Scanlan Hogan | Checked by: Gary Fricke

Drillers Name: Mark Hicks | License Number: 1945

DRILLING METHOD: GeoProbe® Direct Push

START DATE/TIME: 04/01/2011 9:00 am

FINISH DATE/TIME: 04/01/2011 10:00 am

LITHOLOGIC DESCRIPTION	Lithology	FT	TPV	Recovery	Comments
Coarse pebbles					
Brown to light brown, silty CLAY (CL), moist, slightly soft to soft, plastic		1	0.0		
		2	0.1	100%	
		3	0.1		
		4	0.0		
		5	0.5		
Tan, silty sandy CLAY (CL) with small to medium pebbles, moist to very moist, very soft to slightly hard, plastic to slightly plastic		6	0.6	75%	B-1 5-6 ft collected 4/1/11 9:30 am
		7	0.5		
Brown, coarse SAND (SM-SW), very moist to wet, loose		8	0.4		B-1 GW collected 4/1/11 9:45 am
		9	0.2		
Brown, medium SAND (SM-SW), very moist to wet, loose		10	0.1	100%	
Tan, silty sandy CLAY (CL), moist, hard, non-plastic		11	0.1		
		12			Refusal at 11 ft
		13			
		14			
		15			
		16			
		17			
		18			
		19			
		20			

PATRIOT ENGINEERING AND ENVIRONMENTAL, INC.
6330 E. 75th Street, Indianapolis, Indiana 46250
Phone: (317) 576-8058 Fax: (317) 576-1965

RECORD OF SUBSURFACE INVESTIGATION

Please see Figure 3 for Soil Boring Location

BORING IDENTIFICATION: B-2
PAGE: 1 of 1
CLIENT: Saran Industries – Former Meridian Automotive
PROJECT NAME: Phase II ESA / LSI
SITE LOCATION: 501 Northridge Dr, Shelbyville, IN
PROJECT NUMBER: 1-11-0352
Prepared by: Mary Scanlan Hogan | Checked by: Gary Fricke
Drillers Name: Mark Hicks | License Number: 1945
DRILLING METHOD: GeoProbe® Direct Push
START DATE/TIME: 04/01/2011 10:00 am
FINISH DATE/TIME: 04/01/2011 10:30 am

LITHOLOGIC DESCRIPTION	Lithology	FT	TPV	Recovery	Comments
Coarse pebbles					
Brown, silty sandy CLAY (CL), moist, slightly soft to slightly hard,		1	0.2		
non-plastic		2	0.5	100%	
		3	0.7		
Tan, silty CLAY (CL), moist, soft to very soft, plastic		4	0.5		B-2 3-4 ft collected 4/1/11 10:30 am
Brown, silty sandy CLAY (CL) with small to medium pebbles,		5	0.0		
slightly hard, slightly non-plastic		6	0.0	75%	
Brown, silty CLAY (CL), moist, hard, non-plastic		7	0.0		
		8	0.0		
		9			Refusal at 8 ft
		10			
		11			
		12			
		13			
		14			
		15			
		16			
		17			
		18			
		19			
		20			

PATRIOT ENGINEERING AND ENVIRONMENTAL, INC.
6330 E. 75th Street, Indianapolis, Indiana 46250
Phone: (317) 576-8058 Fax: (317) 576-1965

RECORD OF SUBSURFACE INVESTIGATION

Please see Figure 3 for Soil Boring Location

BORING IDENTIFICATION: B-3

PAGE: 1 of 1

CLIENT: Saran Industries – Former Meridian Automotive

PROJECT NAME: Phase II ESA / LSI

SITE LOCATION: 501 Northridge Dr, Shelbyville, IN

PROJECT NUMBER: 1-11-0352

Prepared by: Mary Scanlan Hogan | Checked by: Gary Fricke

Drillers Name: Mark Hicks | License Number: 1945

DRILLING METHOD: GeoProbe® Direct Push

START DATE/TIME: 04/01/2011 10:30 am

FINISH DATE/TIME: 04/01/2011 11:00 am

LITHOLOGIC DESCRIPTION	Lithology	FT	TPV	Recovery	Comments
Brown, silty CLAY (CL), moist, very soft, plastic		1	0.0		
		2	0.0		
		3	0.0		
Dark brown, silty CLAY (CL), moist, soft to slightly hard, plastic to slightly non-plastic		4	0.0		
		5	0.0		
Tan, silty CLAY (CL), moist, soft, plastic		6	0.0		B-3 5-6 ft collected 4/1/11 10:50 am
		7	0.0		
Tan, silty CLAY (CL), very moist to wet, very soft, plastic		8	0.0		B-3 GW collected 4/1/11 12:40 am
Brown, silty sandy CLAY (CL), moist, slightly hard, non-plastic		9	0.0		
		10	0.0		
Tan, silty sandy CLAY (CL), moist, hard, non-plastic		11			Refusal at 10 ft
		12			
		13			
		14			
		15			
		16			
		17			
		18			
		19			
		20			

PATRIOT ENGINEERING AND ENVIRONMENTAL, INC.
6330 E. 75th Street, Indianapolis, Indiana 46250
Phone: (317) 576-8058 Fax: (317) 576-1965

RECORD OF SUBSURFACE INVESTIGATION

Please see Figure 3 for Soil Boring Location

BORING IDENTIFICATION: B-4

PAGE: 1 of 1

CLIENT: Saran Industries – Former Meridian Automotive

PROJECT NAME: Phase II ESA / LSI

SITE LOCATION: 501 Northridge Dr, Shelbyville, IN

PROJECT NUMBER: 1-11-0352

Prepared by: Mary Scanlan Hogan | Checked by: Gary Fricke

Drillers Name: Mark Hicks | License Number: 1945

DRILLING METHOD: GeoProbe® Direct Push

START DATE/TIME: 04/01/2011 11:00 am

FINISH DATE/TIME: 04/01/2011 11:50 am

LITHOLOGIC DESCRIPTION	Lithology	FT	TPV	Recovery	Comments
Concrete					
Brown to tan grey, silty sandy CLAY (CL) with small to medium		1	1.0		
pebbles, moist, slightly hard, slightly non-plastic		2	1.2	100%	
Brown to tan, silty sandy CLAY (CL) with medium pebbles,					
moist, soft to slightly soft, plastic to slightly plastic		3	1.1		
Grey, silty CLAY (CL), moist, slightly hard to slightly soft, slightly					
plastic		4	2.9		
		5	3.0		
		6	3.5	100%	B-4 5-6 ft collected 4/1/11 11:45 am
		7	2.3		
Brown, silty CLAY, moist, slightly soft, slightly plastic		8	1.1		
		9	1.0		
Grey, silty CLAY (CL), moist, slightly hard to slightly soft, slightly				100%	
plastic		10	0.5		
Grey, silty CLAY (CL) with small to medium pebbles, wet, very					
soft, plastic		11	0.5		
		12			Refusal at 11 ft
		13			
		14			
		15			
		16			
		17			
		18			
		19			
		20			

PATRIOT ENGINEERING AND ENVIRONMENTAL, INC.
6330 E. 75th Street, Indianapolis, Indiana 46250
Phone: (317) 576-8058 Fax: (317) 576-1965

RECORD OF SUBSURFACE INVESTIGATION

Please see Figure 3 for Soil Boring Location

BORING IDENTIFICATION: B-5

PAGE: 1 of 1

CLIENT: Saran Industries – Former Meridian Automotive

PROJECT NAME: Phase II ESA / LSI

SITE LOCATION: 501 Northridge Dr, Shelbyville, IN

PROJECT NUMBER: 1-11-0352

Prepared by: Mary Scanlan Hogan | Checked by: Gary Fricke

Drillers Name: Mark Hicks | License Number: 1945

DRILLING METHOD: GeoProbe® Direct Push

START DATE/TIME: 04/01/2011 11:50 am

FINISH DATE/TIME: 04/01/2011 1:00 9m

LITHOLOGIC DESCRIPTION	Lithology	FT	TPV	Recovery	Comments
Brown, silty CLAY (CL), moist, slightly soft, slightly plastic		1	0.1		
		2	0.1	100%	
		3	0.1		
		4	0.1		
Dark grey, silty CLAY (CL), moist, slightly soft, slightly plastic		5	0.5		
Grey, silty CLAY (CL), moist, soft to slightly soft, plastic to slightly plastic		6	0.6	100%	B-5 5-6 ft collected 4/1/11 12:20 pm
Tan, silty CLAY (CL), moist, soft, plastic		7	0.5		
		8	0.5		
Tan, silty sandy CLAY (CL) with small to medium pebbles, wet, very soft, plastic		9	0.0	100%	
		10	0.0		
		11	0.0		
		12			Refusal at 11 ft
		13			
		14			
		15			
		16			
		17			
		18			
		19			
		20			

PATRIOT ENGINEERING AND ENVIRONMENTAL, INC.
6330 E. 75th Street, Indianapolis, Indiana 46250
Phone: (317) 576-8058 Fax: (317) 576-1965

RECORD OF SUBSURFACE INVESTIGATION

Please see Figure 3 for Soil Boring Location

BORING IDENTIFICATION: B-5
PAGE: 1 of 1
CLIENT: Saran Industries – Former Meridian Automotive
PROJECT NAME: Phase II ESA / LSI
SITE LOCATION: 501 Northridge Dr, Shelbyville, IN
PROJECT NUMBER: 1-11-0352
Prepared by: Mary Scanlan Hogan | Checked by: Gary Fricke
Drillers Name: Mark Hicks | License Number: 1945
DRILLING METHOD: GeoProbe® Direct Push
START DATE/TIME: 04/01/2011 11:50 am
FINISH DATE/TIME: 04/01/2011 1:00 9m

LITHOLOGIC DESCRIPTION	Lithology	FT	TPV	Recovery	Comments
Brown, silty CLAY (CL) with some small to medium pebbles, moist, soft to slightly soft, plastic to slightly plastic		1	0.0		
		2	0.2	100%	
		3	0.1		
		4	0.0		
Grey, silty CLAY (CL), moist, soft to slightly soft, plastic to slightly plastic		5	0.5		B-6 4-5 ft collected 4/1/11 1:20 pm
		6	0.5	100%	
Tan, silty CLAY (CL), moist, soft, plastic		7	0.6		
		8	0.5		
		9	0.1		
Wet at 8.5 ft		10	0.1	100%	
Tan, silty sandy CLAY (CL) with small to medium pebbles, moist, very hard, non-plastic		11	0.0		
		12			Refusal at 11 ft
		13			
		14			
		15			
		16			
		17			
		18			
		19			
		20			

APPENDIX C

LABORATORY ANALYTICAL REPORT

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

April 15, 2011

Mr. Gary Fricke
Patriot Engineering
6330 E. 75th Street
Suite 216
Indianapolis, IN 46250

RE: Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Dear Mr. Fricke:
Enclosed are the analytical results for sample(s) received by the laboratory on April 01, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana Certification #: 04076
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SAMPLE SUMMARY

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5047313001	**B-1 5-6ft**	Solid	04/01/11 09:30	04/01/11 15:00
5047313002	**B-2 3-4ft**	Solid	04/01/11 10:30	04/01/11 15:00
5047313003	**B-3 5-6ft**	Solid	04/01/11 10:50	04/01/11 15:00
5047313004	**B-4 5-6ft**	Solid	04/01/11 11:45	04/01/11 15:00
5047313005	**B-5 5-6ft**	Solid	04/01/11 12:20	04/01/11 15:00
5047313006	**B-6 4-5ft**	Solid	04/01/11 13:20	04/01/11 15:00
5047313007	**Duplicate**	Solid	04/01/11 08:00	04/01/11 15:00
5047313008	**B-1 GW**	Water	04/01/11 09:45	04/01/11 15:00
5047313009	**B-3 GW**	Water	04/01/11 12:40	04/01/11 15:00
5047313010	**Duplicate GW**	Water	04/01/11 08:00	04/01/11 15:00
5047313011	**Trip Blank**	Water	04/01/11 08:00	04/01/11 15:00

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SAMPLE ANALYTE COUNT

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5047313001	**B-1 5-6ft**	EPA 8270	KES	66
		EPA 8260	SLB	73
		ASTM D2974-87	BKK	1
5047313002	**B-2 3-4ft**	EPA 8270	KES	66
		EPA 8260	SLB	73
		ASTM D2974-87	BKK	1
5047313003	**B-3 5-6ft**	EPA 8270	KES	66
		EPA 8260	SLB	73
		ASTM D2974-87	BKK	1
5047313004	**B-4 5-6ft**	EPA 8270	KES	66
		EPA 8260	SLB	73
		ASTM D2974-87	BKK	1
5047313005	**B-5 5-6ft**	EPA 8270	KES	66
		EPA 8260	SLB	73
		ASTM D2974-87	BKK	1
5047313006	**B-6 4-5ft**	EPA 8270	KES	66
		EPA 8260	SLB	73
		ASTM D2974-87	BKK	1
5047313007	**Duplicate**	EPA 8270	KES	66
		EPA 8260	SLB	73
		ASTM D2974-87	BKK	1
5047313008	**B-1 GW**	EPA 8270 by SIM	RRB	17
		EPA 8270	KES	66
		EPA 8260	SLB	73
5047313009	**B-3 GW**	EPA 8270 by SIM	RRB	17
		EPA 8270	KES	66
		EPA 8260	SLB	73
5047313010	**Duplicate GW**	EPA 8260	SLB	73
5047313011	**Trip Blank**	EPA 8260	SLB	73

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-1 5-6ft **Lab ID: 5047313001** Collected: 04/01/11 09:30 Received: 04/01/11 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	83-32-9	
Acenaphthylene	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	208-96-8	
Anthracene	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	120-12-7	
Benzo(a)anthracene	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	56-55-3	
Benzo(a)pyrene	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	207-08-9	
Benzyl alcohol	ND	ug/kg	782	1	04/02/11 00:35	04/14/11 00:53	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	101-55-3	
Butylbenzylphthalate	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	782	1	04/02/11 00:35	04/14/11 00:53	59-50-7	
4-Chloroaniline	ND	ug/kg	782	1	04/02/11 00:35	04/14/11 00:53	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	108-60-1	
2-Chloronaphthalene	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	91-58-7	
2-Chlorophenol	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	7005-72-3	
Chrysene	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	53-70-3	
Dibenzofuran	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/kg	782	1	04/02/11 00:35	04/14/11 00:53	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	120-83-2	
Diethylphthalate	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	105-67-9	
Dimethylphthalate	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	131-11-3	
Di-n-butylphthalate	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1900	1	04/02/11 00:35	04/14/11 00:53	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1900	1	04/02/11 00:35	04/14/11 00:53	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	606-20-2	
Di-n-octylphthalate	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	117-81-7	
Fluoranthene	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	206-44-0	
Fluorene	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	87-68-3	
Hexachlorobenzene	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	77-47-4	
Hexachloroethane	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	193-39-5	
Isophorone	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	78-59-1	
2-Methylnaphthalene	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	782	1	04/02/11 00:35	04/14/11 00:53		

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-1 5-6ft **Lab ID: 5047313001** Collected: 04/01/11 09:30 Received: 04/01/11 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Naphthalene	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	91-20-3	
2-Nitroaniline	ND	ug/kg	1900	1	04/02/11 00:35	04/14/11 00:53	88-74-4	
3-Nitroaniline	ND	ug/kg	1900	1	04/02/11 00:35	04/14/11 00:53	99-09-2	
4-Nitroaniline	ND	ug/kg	1900	1	04/02/11 00:35	04/14/11 00:53	100-01-6	
Nitrobenzene	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	98-95-3	
2-Nitrophenol	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	88-75-5	
4-Nitrophenol	ND	ug/kg	1900	1	04/02/11 00:35	04/14/11 00:53	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	86-30-6	
Pentachlorophenol	ND	ug/kg	1900	1	04/02/11 00:35	04/14/11 00:53	87-86-5	
Phenanthrene	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	85-01-8	
Phenol	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	108-95-2	
Pyrene	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	129-00-0	
2,4,5-Trichlorophenol	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	391	1	04/02/11 00:35	04/14/11 00:53	88-06-2	
Nitrobenzene-d5 (S)	59	%	26-98	1	04/02/11 00:35	04/14/11 00:53	4165-60-0	
2-Fluorobiphenyl (S)	57	%	36-94	1	04/02/11 00:35	04/14/11 00:53	321-60-8	
Terphenyl-d14 (S)	56	%	32-112	1	04/02/11 00:35	04/14/11 00:53	1718-51-0	
Phenol-d6 (S)	57	%	33-98	1	04/02/11 00:35	04/14/11 00:53	13127-88-3	
2-Fluorophenol (S)	62	%	29-97	1	04/02/11 00:35	04/14/11 00:53	367-12-4	
2,4,6-Tribromophenol (S)	56	%	24-114	1	04/02/11 00:35	04/14/11 00:53	118-79-6	
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	118	1		04/11/11 13:08	67-64-1	
Acrolein	ND	ug/kg	118	1		04/11/11 13:08	107-02-8	
Acrylonitrile	ND	ug/kg	118	1		04/11/11 13:08	107-13-1	
Benzene	ND	ug/kg	5.9	1		04/11/11 13:08	71-43-2	
Bromobenzene	ND	ug/kg	5.9	1		04/11/11 13:08	108-86-1	
Bromochloromethane	ND	ug/kg	5.9	1		04/11/11 13:08	74-97-5	
Bromodichloromethane	ND	ug/kg	5.9	1		04/11/11 13:08	75-27-4	
Bromoform	ND	ug/kg	5.9	1		04/11/11 13:08	75-25-2	
Bromomethane	ND	ug/kg	5.9	1		04/11/11 13:08	74-83-9	
2-Butanone (MEK)	ND	ug/kg	29.6	1		04/11/11 13:08	78-93-3	
n-Butylbenzene	ND	ug/kg	5.9	1		04/11/11 13:08	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.9	1		04/11/11 13:08	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.9	1		04/11/11 13:08	98-06-6	
Carbon disulfide	ND	ug/kg	11.8	1		04/11/11 13:08	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.9	1		04/11/11 13:08	56-23-5	
Chlorobenzene	ND	ug/kg	5.9	1		04/11/11 13:08	108-90-7	
Chloroethane	ND	ug/kg	5.9	1		04/11/11 13:08	75-00-3	
Chloroform	ND	ug/kg	5.9	1		04/11/11 13:08	67-66-3	
Chloromethane	ND	ug/kg	5.9	1		04/11/11 13:08	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.9	1		04/11/11 13:08	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.9	1		04/11/11 13:08	106-43-4	
Dibromochloromethane	ND	ug/kg	5.9	1		04/11/11 13:08	124-48-1	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-1 5-6ft **Lab ID: 5047313001** Collected: 04/01/11 09:30 Received: 04/01/11 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
1,2-Dibromoethane (EDB)	ND	ug/kg	5.9	1		04/11/11 13:08	106-93-4	
Dibromomethane	ND	ug/kg	5.9	1		04/11/11 13:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.9	1		04/11/11 13:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.9	1		04/11/11 13:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.9	1		04/11/11 13:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	118	1		04/11/11 13:08	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.9	1		04/11/11 13:08	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.9	1		04/11/11 13:08	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.9	1		04/11/11 13:08	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.9	1		04/11/11 13:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.9	1		04/11/11 13:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.9	1		04/11/11 13:08	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.9	1		04/11/11 13:08	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.9	1		04/11/11 13:08	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.9	1		04/11/11 13:08	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.9	1		04/11/11 13:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.9	1		04/11/11 13:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.9	1		04/11/11 13:08	10061-02-6	
Ethylbenzene	ND	ug/kg	5.9	1		04/11/11 13:08	100-41-4	
Ethyl methacrylate	ND	ug/kg	118	1		04/11/11 13:08	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.9	1		04/11/11 13:08	87-68-3	
n-Hexane	ND	ug/kg	5.9	1		04/11/11 13:08	110-54-3	
2-Hexanone	ND	ug/kg	118	1		04/11/11 13:08	591-78-6	
Iodomethane	ND	ug/kg	118	1		04/11/11 13:08	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	5.9	1		04/11/11 13:08	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.9	1		04/11/11 13:08	99-87-6	
Methylene chloride	ND	ug/kg	23.7	1		04/11/11 13:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	29.6	1		04/11/11 13:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.9	1		04/11/11 13:08	1634-04-4	
Naphthalene	ND	ug/kg	5.9	1		04/11/11 13:08	91-20-3	
n-Propylbenzene	ND	ug/kg	5.9	1		04/11/11 13:08	103-65-1	
Styrene	ND	ug/kg	5.9	1		04/11/11 13:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.9	1		04/11/11 13:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.9	1		04/11/11 13:08	79-34-5	
Tetrachloroethene	ND	ug/kg	5.9	1		04/11/11 13:08	127-18-4	
Toluene	ND	ug/kg	5.9	1		04/11/11 13:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.9	1		04/11/11 13:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.9	1		04/11/11 13:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.9	1		04/11/11 13:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.9	1		04/11/11 13:08	79-00-5	
Trichloroethene	ND	ug/kg	5.9	1		04/11/11 13:08	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.9	1		04/11/11 13:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.9	1		04/11/11 13:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.9	1		04/11/11 13:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.9	1		04/11/11 13:08	108-67-8	
Vinyl acetate	ND	ug/kg	118	1		04/11/11 13:08	108-05-4	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-1 5-6ft **Lab ID: 5047313001** Collected: 04/01/11 09:30 Received: 04/01/11 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
Vinyl chloride	ND	ug/kg	5.9	1		04/11/11 13:08	75-01-4	
Xylene (Total)	ND	ug/kg	11.8	1		04/11/11 13:08	1330-20-7	
Dibromofluoromethane (S)	101	%	71-125	1		04/11/11 13:08	1868-53-7	
Toluene-d8 (S)	99	%	76-124	1		04/11/11 13:08	2037-26-5	
4-Bromofluorobenzene (S)	93	%	67-134	1		04/11/11 13:08	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**15.6**	%	0.10	1		04/07/11 14:31		

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-2 3-4ft **Lab ID: 5047313002** Collected: 04/01/11 10:30 Received: 04/01/11 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	83-32-9	
Acenaphthylene	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	208-96-8	
Anthracene	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	120-12-7	
Benzo(a)anthracene	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	56-55-3	
Benzo(a)pyrene	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	207-08-9	
Benzyl alcohol	ND	ug/kg	803	1	04/02/11 00:35	04/14/11 01:13	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	101-55-3	
Butylbenzylphthalate	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	803	1	04/02/11 00:35	04/14/11 01:13	59-50-7	
4-Chloroaniline	ND	ug/kg	803	1	04/02/11 00:35	04/14/11 01:13	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	108-60-1	
2-Chloronaphthalene	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	91-58-7	
2-Chlorophenol	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	7005-72-3	
Chrysene	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	53-70-3	
Dibenzofuran	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/kg	803	1	04/02/11 00:35	04/14/11 01:13	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	120-83-2	
Diethylphthalate	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	105-67-9	
Dimethylphthalate	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	131-11-3	
Di-n-butylphthalate	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1950	1	04/02/11 00:35	04/14/11 01:13	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1950	1	04/02/11 00:35	04/14/11 01:13	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	606-20-2	
Di-n-octylphthalate	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	117-81-7	
Fluoranthene	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	206-44-0	
Fluorene	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	87-68-3	
Hexachlorobenzene	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	77-47-4	
Hexachloroethane	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	193-39-5	
Isophorone	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	78-59-1	
2-Methylnaphthalene	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	803	1	04/02/11 00:35	04/14/11 01:13		

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-2 3-4ft **Lab ID: 5047313002** Collected: 04/01/11 10:30 Received: 04/01/11 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Naphthalene	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	91-20-3	
2-Nitroaniline	ND	ug/kg	1950	1	04/02/11 00:35	04/14/11 01:13	88-74-4	
3-Nitroaniline	ND	ug/kg	1950	1	04/02/11 00:35	04/14/11 01:13	99-09-2	
4-Nitroaniline	ND	ug/kg	1950	1	04/02/11 00:35	04/14/11 01:13	100-01-6	
Nitrobenzene	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	98-95-3	
2-Nitrophenol	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	88-75-5	
4-Nitrophenol	ND	ug/kg	1950	1	04/02/11 00:35	04/14/11 01:13	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	86-30-6	
Pentachlorophenol	ND	ug/kg	1950	1	04/02/11 00:35	04/14/11 01:13	87-86-5	
Phenanthrene	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	85-01-8	
Phenol	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	108-95-2	
Pyrene	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	129-00-0	
2,4,5-Trichlorophenol	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	401	1	04/02/11 00:35	04/14/11 01:13	88-06-2	
Nitrobenzene-d5 (S)	60	%	26-98	1	04/02/11 00:35	04/14/11 01:13	4165-60-0	
2-Fluorobiphenyl (S)	58	%	36-94	1	04/02/11 00:35	04/14/11 01:13	321-60-8	
Terphenyl-d14 (S)	58	%	32-112	1	04/02/11 00:35	04/14/11 01:13	1718-51-0	
Phenol-d6 (S)	60	%	33-98	1	04/02/11 00:35	04/14/11 01:13	13127-88-3	
2-Fluorophenol (S)	64	%	29-97	1	04/02/11 00:35	04/14/11 01:13	367-12-4	
2,4,6-Tribromophenol (S)	57	%	24-114	1	04/02/11 00:35	04/14/11 01:13	118-79-6	
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	122	1		04/11/11 13:46	67-64-1	
Acrolein	ND	ug/kg	122	1		04/11/11 13:46	107-02-8	
Acrylonitrile	ND	ug/kg	122	1		04/11/11 13:46	107-13-1	
Benzene	ND	ug/kg	6.1	1		04/11/11 13:46	71-43-2	
Bromobenzene	ND	ug/kg	6.1	1		04/11/11 13:46	108-86-1	
Bromochloromethane	ND	ug/kg	6.1	1		04/11/11 13:46	74-97-5	
Bromodichloromethane	ND	ug/kg	6.1	1		04/11/11 13:46	75-27-4	
Bromoform	ND	ug/kg	6.1	1		04/11/11 13:46	75-25-2	
Bromomethane	ND	ug/kg	6.1	1		04/11/11 13:46	74-83-9	
2-Butanone (MEK)	ND	ug/kg	30.4	1		04/11/11 13:46	78-93-3	
n-Butylbenzene	ND	ug/kg	6.1	1		04/11/11 13:46	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.1	1		04/11/11 13:46	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.1	1		04/11/11 13:46	98-06-6	
Carbon disulfide	ND	ug/kg	12.2	1		04/11/11 13:46	75-15-0	
Carbon tetrachloride	ND	ug/kg	6.1	1		04/11/11 13:46	56-23-5	
Chlorobenzene	ND	ug/kg	6.1	1		04/11/11 13:46	108-90-7	
Chloroethane	ND	ug/kg	6.1	1		04/11/11 13:46	75-00-3	
Chloroform	ND	ug/kg	6.1	1		04/11/11 13:46	67-66-3	
Chloromethane	ND	ug/kg	6.1	1		04/11/11 13:46	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.1	1		04/11/11 13:46	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.1	1		04/11/11 13:46	106-43-4	
Dibromochloromethane	ND	ug/kg	6.1	1		04/11/11 13:46	124-48-1	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-2 3-4ft **Lab ID: 5047313002** Collected: 04/01/11 10:30 Received: 04/01/11 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
1,2-Dibromoethane (EDB)	ND	ug/kg	6.1	1		04/11/11 13:46	106-93-4	
Dibromomethane	ND	ug/kg	6.1	1		04/11/11 13:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.1	1		04/11/11 13:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.1	1		04/11/11 13:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.1	1		04/11/11 13:46	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	122	1		04/11/11 13:46	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	6.1	1		04/11/11 13:46	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.1	1		04/11/11 13:46	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.1	1		04/11/11 13:46	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.1	1		04/11/11 13:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.1	1		04/11/11 13:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.1	1		04/11/11 13:46	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.1	1		04/11/11 13:46	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.1	1		04/11/11 13:46	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.1	1		04/11/11 13:46	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.1	1		04/11/11 13:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	6.1	1		04/11/11 13:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.1	1		04/11/11 13:46	10061-02-6	
Ethylbenzene	ND	ug/kg	6.1	1		04/11/11 13:46	100-41-4	
Ethyl methacrylate	ND	ug/kg	122	1		04/11/11 13:46	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	6.1	1		04/11/11 13:46	87-68-3	
n-Hexane	ND	ug/kg	6.1	1		04/11/11 13:46	110-54-3	
2-Hexanone	ND	ug/kg	122	1		04/11/11 13:46	591-78-6	
Iodomethane	ND	ug/kg	122	1		04/11/11 13:46	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	6.1	1		04/11/11 13:46	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.1	1		04/11/11 13:46	99-87-6	
Methylene chloride	ND	ug/kg	24.3	1		04/11/11 13:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	30.4	1		04/11/11 13:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.1	1		04/11/11 13:46	1634-04-4	
Naphthalene	ND	ug/kg	6.1	1		04/11/11 13:46	91-20-3	
n-Propylbenzene	ND	ug/kg	6.1	1		04/11/11 13:46	103-65-1	
Styrene	ND	ug/kg	6.1	1		04/11/11 13:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.1	1		04/11/11 13:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.1	1		04/11/11 13:46	79-34-5	
Tetrachloroethene	ND	ug/kg	6.1	1		04/11/11 13:46	127-18-4	
Toluene	ND	ug/kg	6.1	1		04/11/11 13:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.1	1		04/11/11 13:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.1	1		04/11/11 13:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.1	1		04/11/11 13:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.1	1		04/11/11 13:46	79-00-5	
Trichloroethene	ND	ug/kg	6.1	1		04/11/11 13:46	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.1	1		04/11/11 13:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.1	1		04/11/11 13:46	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.1	1		04/11/11 13:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.1	1		04/11/11 13:46	108-67-8	
Vinyl acetate	ND	ug/kg	122	1		04/11/11 13:46	108-05-4	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-2 3-4ft **Lab ID: 5047313002** Collected: 04/01/11 10:30 Received: 04/01/11 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
Vinyl chloride	ND	ug/kg	6.1	1		04/11/11 13:46	75-01-4	
Xylene (Total)	ND	ug/kg	12.2	1		04/11/11 13:46	1330-20-7	
Dibromofluoromethane (S)	100	%	71-125	1		04/11/11 13:46	1868-53-7	
Toluene-d8 (S)	97	%	76-124	1		04/11/11 13:46	2037-26-5	
4-Bromofluorobenzene (S)	92	%	67-134	1		04/11/11 13:46	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**17.8**	%	0.10	1		04/07/11 14:31		

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-3 5-6ft **Lab ID: 5047313003** Collected: 04/01/11 10:50 Received: 04/01/11 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	83-32-9	
Acenaphthylene	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	208-96-8	
Anthracene	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	120-12-7	
Benzo(a)anthracene	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	56-55-3	
Benzo(a)pyrene	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	207-08-9	
Benzyl alcohol	ND	ug/kg	841	1	04/02/11 00:35	04/14/11 01:33	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	101-55-3	
Butylbenzylphthalate	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	841	1	04/02/11 00:35	04/14/11 01:33	59-50-7	
4-Chloroaniline	ND	ug/kg	841	1	04/02/11 00:35	04/14/11 01:33	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	108-60-1	
2-Chloronaphthalene	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	91-58-7	
2-Chlorophenol	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	7005-72-3	
Chrysene	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	53-70-3	
Dibenzofuran	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/kg	841	1	04/02/11 00:35	04/14/11 01:33	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	120-83-2	
Diethylphthalate	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	105-67-9	
Dimethylphthalate	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	131-11-3	
Di-n-butylphthalate	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	2040	1	04/02/11 00:35	04/14/11 01:33	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	2040	1	04/02/11 00:35	04/14/11 01:33	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	606-20-2	
Di-n-octylphthalate	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	117-81-7	
Fluoranthene	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	206-44-0	
Fluorene	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	87-68-3	
Hexachlorobenzene	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	77-47-4	
Hexachloroethane	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	193-39-5	
Isophorone	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	78-59-1	
2-Methylnaphthalene	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	841	1	04/02/11 00:35	04/14/11 01:33		

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-3 5-6ft **Lab ID: 5047313003** Collected: 04/01/11 10:50 Received: 04/01/11 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Naphthalene	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	91-20-3	
2-Nitroaniline	ND	ug/kg	2040	1	04/02/11 00:35	04/14/11 01:33	88-74-4	
3-Nitroaniline	ND	ug/kg	2040	1	04/02/11 00:35	04/14/11 01:33	99-09-2	
4-Nitroaniline	ND	ug/kg	2040	1	04/02/11 00:35	04/14/11 01:33	100-01-6	
Nitrobenzene	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	98-95-3	
2-Nitrophenol	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	88-75-5	
4-Nitrophenol	ND	ug/kg	2040	1	04/02/11 00:35	04/14/11 01:33	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	86-30-6	
Pentachlorophenol	ND	ug/kg	2040	1	04/02/11 00:35	04/14/11 01:33	87-86-5	
Phenanthrene	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	85-01-8	
Phenol	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	108-95-2	
Pyrene	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	129-00-0	
2,4,5-Trichlorophenol	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	420	1	04/02/11 00:35	04/14/11 01:33	88-06-2	
Nitrobenzene-d5 (S)	51	%	26-98	1	04/02/11 00:35	04/14/11 01:33	4165-60-0	
2-Fluorobiphenyl (S)	57	%	36-94	1	04/02/11 00:35	04/14/11 01:33	321-60-8	
Terphenyl-d14 (S)	49	%	32-112	1	04/02/11 00:35	04/14/11 01:33	1718-51-0	
Phenol-d6 (S)	63	%	33-98	1	04/02/11 00:35	04/14/11 01:33	13127-88-3	
2-Fluorophenol (S)	66	%	29-97	1	04/02/11 00:35	04/14/11 01:33	367-12-4	
2,4,6-Tribromophenol (S)	57	%	24-114	1	04/02/11 00:35	04/14/11 01:33	118-79-6	
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	127	1		04/11/11 14:23	67-64-1	
Acrolein	ND	ug/kg	127	1		04/11/11 14:23	107-02-8	
Acrylonitrile	ND	ug/kg	127	1		04/11/11 14:23	107-13-1	
Benzene	ND	ug/kg	6.4	1		04/11/11 14:23	71-43-2	
Bromobenzene	ND	ug/kg	6.4	1		04/11/11 14:23	108-86-1	
Bromochloromethane	ND	ug/kg	6.4	1		04/11/11 14:23	74-97-5	
Bromodichloromethane	ND	ug/kg	6.4	1		04/11/11 14:23	75-27-4	
Bromoform	ND	ug/kg	6.4	1		04/11/11 14:23	75-25-2	
Bromomethane	ND	ug/kg	6.4	1		04/11/11 14:23	74-83-9	
2-Butanone (MEK)	ND	ug/kg	31.8	1		04/11/11 14:23	78-93-3	
n-Butylbenzene	ND	ug/kg	6.4	1		04/11/11 14:23	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.4	1		04/11/11 14:23	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.4	1		04/11/11 14:23	98-06-6	
Carbon disulfide	ND	ug/kg	12.7	1		04/11/11 14:23	75-15-0	
Carbon tetrachloride	ND	ug/kg	6.4	1		04/11/11 14:23	56-23-5	
Chlorobenzene	ND	ug/kg	6.4	1		04/11/11 14:23	108-90-7	
Chloroethane	ND	ug/kg	6.4	1		04/11/11 14:23	75-00-3	
Chloroform	ND	ug/kg	6.4	1		04/11/11 14:23	67-66-3	
Chloromethane	ND	ug/kg	6.4	1		04/11/11 14:23	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.4	1		04/11/11 14:23	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.4	1		04/11/11 14:23	106-43-4	
Dibromochloromethane	ND	ug/kg	6.4	1		04/11/11 14:23	124-48-1	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-3 5-6ft **Lab ID: 5047313003** Collected: 04/01/11 10:50 Received: 04/01/11 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
1,2-Dibromoethane (EDB)	ND	ug/kg	6.4	1		04/11/11 14:23	106-93-4	
Dibromomethane	ND	ug/kg	6.4	1		04/11/11 14:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.4	1		04/11/11 14:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.4	1		04/11/11 14:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.4	1		04/11/11 14:23	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	127	1		04/11/11 14:23	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	6.4	1		04/11/11 14:23	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.4	1		04/11/11 14:23	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.4	1		04/11/11 14:23	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.4	1		04/11/11 14:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.4	1		04/11/11 14:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.4	1		04/11/11 14:23	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.4	1		04/11/11 14:23	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.4	1		04/11/11 14:23	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.4	1		04/11/11 14:23	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.4	1		04/11/11 14:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	6.4	1		04/11/11 14:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.4	1		04/11/11 14:23	10061-02-6	
Ethylbenzene	ND	ug/kg	6.4	1		04/11/11 14:23	100-41-4	
Ethyl methacrylate	ND	ug/kg	127	1		04/11/11 14:23	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	6.4	1		04/11/11 14:23	87-68-3	
n-Hexane	ND	ug/kg	6.4	1		04/11/11 14:23	110-54-3	
2-Hexanone	ND	ug/kg	127	1		04/11/11 14:23	591-78-6	
Iodomethane	ND	ug/kg	127	1		04/11/11 14:23	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	6.4	1		04/11/11 14:23	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.4	1		04/11/11 14:23	99-87-6	
Methylene chloride	ND	ug/kg	25.5	1		04/11/11 14:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	31.8	1		04/11/11 14:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.4	1		04/11/11 14:23	1634-04-4	
Naphthalene	ND	ug/kg	6.4	1		04/11/11 14:23	91-20-3	
n-Propylbenzene	ND	ug/kg	6.4	1		04/11/11 14:23	103-65-1	
Styrene	ND	ug/kg	6.4	1		04/11/11 14:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.4	1		04/11/11 14:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.4	1		04/11/11 14:23	79-34-5	
Tetrachloroethene	ND	ug/kg	6.4	1		04/11/11 14:23	127-18-4	
Toluene	ND	ug/kg	6.4	1		04/11/11 14:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.4	1		04/11/11 14:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.4	1		04/11/11 14:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.4	1		04/11/11 14:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.4	1		04/11/11 14:23	79-00-5	
Trichloroethene	ND	ug/kg	6.4	1		04/11/11 14:23	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.4	1		04/11/11 14:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.4	1		04/11/11 14:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.4	1		04/11/11 14:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.4	1		04/11/11 14:23	108-67-8	
Vinyl acetate	ND	ug/kg	127	1		04/11/11 14:23	108-05-4	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-3 5-6ft **Lab ID: 5047313003** Collected: 04/01/11 10:50 Received: 04/01/11 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
Vinyl chloride	ND	ug/kg	6.4	1		04/11/11 14:23	75-01-4	
Xylene (Total)	ND	ug/kg	12.7	1		04/11/11 14:23	1330-20-7	
Dibromofluoromethane (S)	100	%	71-125	1		04/11/11 14:23	1868-53-7	
Toluene-d8 (S)	98	%	76-124	1		04/11/11 14:23	2037-26-5	
4-Bromofluorobenzene (S)	93	%	67-134	1		04/11/11 14:23	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**21.5**	%	0.10	1		04/07/11 14:31		

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-4 5-6ft **Lab ID: 5047313004** Collected: 04/01/11 11:45 Received: 04/01/11 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	83-32-9	
Acenaphthylene	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	208-96-8	
Anthracene	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	120-12-7	
Benzo(a)anthracene	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	56-55-3	
Benzo(a)pyrene	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	207-08-9	
Benzyl alcohol	ND	ug/kg	819	1	04/06/11 23:35	04/10/11 23:50	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	101-55-3	
Butylbenzylphthalate	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	819	1	04/06/11 23:35	04/10/11 23:50	59-50-7	
4-Chloroaniline	ND	ug/kg	819	1	04/06/11 23:35	04/10/11 23:50	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	108-60-1	
2-Chloronaphthalene	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	91-58-7	
2-Chlorophenol	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	7005-72-3	
Chrysene	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	53-70-3	
Dibenzofuran	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/kg	819	1	04/06/11 23:35	04/10/11 23:50	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	120-83-2	
Diethylphthalate	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	105-67-9	
Dimethylphthalate	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	131-11-3	
Di-n-butylphthalate	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1990	1	04/06/11 23:35	04/10/11 23:50	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1990	1	04/06/11 23:35	04/10/11 23:50	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	606-20-2	
Di-n-octylphthalate	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	117-81-7	
Fluoranthene	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	206-44-0	
Fluorene	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	87-68-3	
Hexachlorobenzene	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	77-47-4	
Hexachloroethane	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	193-39-5	
Isophorone	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	78-59-1	
2-Methylnaphthalene	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	819	1	04/06/11 23:35	04/10/11 23:50		

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-4 5-6ft **Lab ID: 5047313004** Collected: 04/01/11 11:45 Received: 04/01/11 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Naphthalene	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	91-20-3	
2-Nitroaniline	ND	ug/kg	1990	1	04/06/11 23:35	04/10/11 23:50	88-74-4	
3-Nitroaniline	ND	ug/kg	1990	1	04/06/11 23:35	04/10/11 23:50	99-09-2	
4-Nitroaniline	ND	ug/kg	1990	1	04/06/11 23:35	04/10/11 23:50	100-01-6	
Nitrobenzene	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	98-95-3	
2-Nitrophenol	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	88-75-5	
4-Nitrophenol	ND	ug/kg	1990	1	04/06/11 23:35	04/10/11 23:50	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	86-30-6	
Pentachlorophenol	ND	ug/kg	1990	1	04/06/11 23:35	04/10/11 23:50	87-86-5	
Phenanthrene	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	85-01-8	
Phenol	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	108-95-2	
Pyrene	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	129-00-0	
2,4,5-Trichlorophenol	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	409	1	04/06/11 23:35	04/10/11 23:50	88-06-2	
Nitrobenzene-d5 (S)	67	%	26-98	1	04/06/11 23:35	04/10/11 23:50	4165-60-0	
2-Fluorobiphenyl (S)	63	%	36-94	1	04/06/11 23:35	04/10/11 23:50	321-60-8	
Terphenyl-d14 (S)	78	%	32-112	1	04/06/11 23:35	04/10/11 23:50	1718-51-0	
Phenol-d6 (S)	87	%	33-98	1	04/06/11 23:35	04/10/11 23:50	13127-88-3	
2-Fluorophenol (S)	85	%	29-97	1	04/06/11 23:35	04/10/11 23:50	367-12-4	
2,4,6-Tribromophenol (S)	71	%	24-114	1	04/06/11 23:35	04/10/11 23:50	118-79-6	
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
Acetone	**193**	ug/kg	124	1		04/11/11 16:15	67-64-1	
Acrolein	ND	ug/kg	124	1		04/11/11 16:15	107-02-8	
Acrylonitrile	ND	ug/kg	124	1		04/11/11 16:15	107-13-1	
Benzene	ND	ug/kg	6.2	1		04/11/11 16:15	71-43-2	
Bromobenzene	ND	ug/kg	6.2	1		04/11/11 16:15	108-86-1	
Bromochloromethane	ND	ug/kg	6.2	1		04/11/11 16:15	74-97-5	
Bromodichloromethane	ND	ug/kg	6.2	1		04/11/11 16:15	75-27-4	
Bromoform	ND	ug/kg	6.2	1		04/11/11 16:15	75-25-2	
Bromomethane	ND	ug/kg	6.2	1		04/11/11 16:15	74-83-9	
2-Butanone (MEK)	ND	ug/kg	31.0	1		04/11/11 16:15	78-93-3	
n-Butylbenzene	ND	ug/kg	6.2	1		04/11/11 16:15	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.2	1		04/11/11 16:15	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.2	1		04/11/11 16:15	98-06-6	
Carbon disulfide	ND	ug/kg	12.4	1		04/11/11 16:15	75-15-0	
Carbon tetrachloride	ND	ug/kg	6.2	1		04/11/11 16:15	56-23-5	
Chlorobenzene	ND	ug/kg	6.2	1		04/11/11 16:15	108-90-7	
Chloroethane	ND	ug/kg	6.2	1		04/11/11 16:15	75-00-3	
Chloroform	ND	ug/kg	6.2	1		04/11/11 16:15	67-66-3	
Chloromethane	ND	ug/kg	6.2	1		04/11/11 16:15	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.2	1		04/11/11 16:15	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.2	1		04/11/11 16:15	106-43-4	
Dibromochloromethane	ND	ug/kg	6.2	1		04/11/11 16:15	124-48-1	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-4 5-6ft **Lab ID: 5047313004** Collected: 04/01/11 11:45 Received: 04/01/11 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
1,2-Dibromoethane (EDB)	ND	ug/kg	6.2	1		04/11/11 16:15	106-93-4	
Dibromomethane	ND	ug/kg	6.2	1		04/11/11 16:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.2	1		04/11/11 16:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.2	1		04/11/11 16:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.2	1		04/11/11 16:15	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	124	1		04/11/11 16:15	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	6.2	1		04/11/11 16:15	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.2	1		04/11/11 16:15	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.2	1		04/11/11 16:15	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.2	1		04/11/11 16:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.2	1		04/11/11 16:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.2	1		04/11/11 16:15	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.2	1		04/11/11 16:15	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.2	1		04/11/11 16:15	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.2	1		04/11/11 16:15	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.2	1		04/11/11 16:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	6.2	1		04/11/11 16:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.2	1		04/11/11 16:15	10061-02-6	
Ethylbenzene	ND	ug/kg	6.2	1		04/11/11 16:15	100-41-4	
Ethyl methacrylate	ND	ug/kg	124	1		04/11/11 16:15	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	6.2	1		04/11/11 16:15	87-68-3	
n-Hexane	ND	ug/kg	6.2	1		04/11/11 16:15	110-54-3	
2-Hexanone	ND	ug/kg	124	1		04/11/11 16:15	591-78-6	
Iodomethane	ND	ug/kg	124	1		04/11/11 16:15	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	6.2	1		04/11/11 16:15	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.2	1		04/11/11 16:15	99-87-6	
Methylene chloride	ND	ug/kg	24.8	1		04/11/11 16:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	31.0	1		04/11/11 16:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.2	1		04/11/11 16:15	1634-04-4	
Naphthalene	ND	ug/kg	6.2	1		04/11/11 16:15	91-20-3	
n-Propylbenzene	ND	ug/kg	6.2	1		04/11/11 16:15	103-65-1	
Styrene	ND	ug/kg	6.2	1		04/11/11 16:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.2	1		04/11/11 16:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.2	1		04/11/11 16:15	79-34-5	
Tetrachloroethene	ND	ug/kg	6.2	1		04/11/11 16:15	127-18-4	
Toluene	ND	ug/kg	6.2	1		04/11/11 16:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.2	1		04/11/11 16:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.2	1		04/11/11 16:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.2	1		04/11/11 16:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.2	1		04/11/11 16:15	79-00-5	
Trichloroethene	ND	ug/kg	6.2	1		04/11/11 16:15	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.2	1		04/11/11 16:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.2	1		04/11/11 16:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.2	1		04/11/11 16:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.2	1		04/11/11 16:15	108-67-8	
Vinyl acetate	ND	ug/kg	124	1		04/11/11 16:15	108-05-4	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-4 5-6ft **Lab ID: 5047313004** Collected: 04/01/11 11:45 Received: 04/01/11 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
Vinyl chloride	ND	ug/kg	6.2	1		04/11/11 16:15	75-01-4	
Xylene (Total)	ND	ug/kg	12.4	1		04/11/11 16:15	1330-20-7	
Dibromofluoromethane (S)	102	%	71-125	1		04/11/11 16:15	1868-53-7	
Toluene-d8 (S)	97	%	76-124	1		04/11/11 16:15	2037-26-5	
4-Bromofluorobenzene (S)	94	%	67-134	1		04/11/11 16:15	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.4**	%	0.10	1		04/07/11 14:31		

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-5 5-6ft **Lab ID: 5047313005** Collected: 04/01/11 12:20 Received: 04/01/11 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	83-32-9	
Acenaphthylene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	208-96-8	
Anthracene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	120-12-7	
Benzo(a)anthracene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	56-55-3	
Benzo(a)pyrene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	207-08-9	
Benzyl alcohol	ND	ug/kg	812	1	04/02/11 00:35	04/14/11 02:13	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	101-55-3	
Butylbenzylphthalate	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	812	1	04/02/11 00:35	04/14/11 02:13	59-50-7	
4-Chloroaniline	ND	ug/kg	812	1	04/02/11 00:35	04/14/11 02:13	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	108-60-1	
2-Chloronaphthalene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	91-58-7	
2-Chlorophenol	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	7005-72-3	
Chrysene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	53-70-3	
Dibenzofuran	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/kg	812	1	04/02/11 00:35	04/14/11 02:13	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	120-83-2	
Diethylphthalate	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	105-67-9	
Dimethylphthalate	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	131-11-3	
Di-n-butylphthalate	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1970	1	04/02/11 00:35	04/14/11 02:13	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1970	1	04/02/11 00:35	04/14/11 02:13	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	606-20-2	
Di-n-octylphthalate	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	117-81-7	
Fluoranthene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	206-44-0	
Fluorene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	87-68-3	
Hexachlorobenzene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	77-47-4	
Hexachloroethane	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	193-39-5	
Isophorone	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	78-59-1	
2-Methylnaphthalene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	812	1	04/02/11 00:35	04/14/11 02:13		

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-5 5-6ft **Lab ID: 5047313005** Collected: 04/01/11 12:20 Received: 04/01/11 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Naphthalene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	91-20-3	
2-Nitroaniline	ND	ug/kg	1970	1	04/02/11 00:35	04/14/11 02:13	88-74-4	
3-Nitroaniline	ND	ug/kg	1970	1	04/02/11 00:35	04/14/11 02:13	99-09-2	
4-Nitroaniline	ND	ug/kg	1970	1	04/02/11 00:35	04/14/11 02:13	100-01-6	
Nitrobenzene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	98-95-3	
2-Nitrophenol	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	88-75-5	
4-Nitrophenol	ND	ug/kg	1970	1	04/02/11 00:35	04/14/11 02:13	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	86-30-6	
Pentachlorophenol	ND	ug/kg	1970	1	04/02/11 00:35	04/14/11 02:13	87-86-5	
Phenanthrene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	85-01-8	
Phenol	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	108-95-2	
Pyrene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	129-00-0	
2,4,5-Trichlorophenol	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:13	88-06-2	
Nitrobenzene-d5 (S)	40	%	26-98	1	04/02/11 00:35	04/14/11 02:13	4165-60-0	
2-Fluorobiphenyl (S)	53	%	36-94	1	04/02/11 00:35	04/14/11 02:13	321-60-8	
Terphenyl-d14 (S)	45	%	32-112	1	04/02/11 00:35	04/14/11 02:13	1718-51-0	
Phenol-d6 (S)	60	%	33-98	1	04/02/11 00:35	04/14/11 02:13	13127-88-3	
2-Fluorophenol (S)	62	%	29-97	1	04/02/11 00:35	04/14/11 02:13	367-12-4	
2,4,6-Tribromophenol (S)	55	%	24-114	1	04/02/11 00:35	04/14/11 02:13	118-79-6	
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
Acetone	**128**	ug/kg	123	1		04/11/11 16:53	67-64-1	
Acrolein	ND	ug/kg	123	1		04/11/11 16:53	107-02-8	
Acrylonitrile	ND	ug/kg	123	1		04/11/11 16:53	107-13-1	
Benzene	ND	ug/kg	6.2	1		04/11/11 16:53	71-43-2	
Bromobenzene	ND	ug/kg	6.2	1		04/11/11 16:53	108-86-1	
Bromochloromethane	ND	ug/kg	6.2	1		04/11/11 16:53	74-97-5	
Bromodichloromethane	ND	ug/kg	6.2	1		04/11/11 16:53	75-27-4	
Bromoform	ND	ug/kg	6.2	1		04/11/11 16:53	75-25-2	
Bromomethane	ND	ug/kg	6.2	1		04/11/11 16:53	74-83-9	
2-Butanone (MEK)	ND	ug/kg	30.8	1		04/11/11 16:53	78-93-3	
n-Butylbenzene	ND	ug/kg	6.2	1		04/11/11 16:53	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.2	1		04/11/11 16:53	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.2	1		04/11/11 16:53	98-06-6	
Carbon disulfide	ND	ug/kg	12.3	1		04/11/11 16:53	75-15-0	
Carbon tetrachloride	ND	ug/kg	6.2	1		04/11/11 16:53	56-23-5	
Chlorobenzene	ND	ug/kg	6.2	1		04/11/11 16:53	108-90-7	
Chloroethane	ND	ug/kg	6.2	1		04/11/11 16:53	75-00-3	
Chloroform	ND	ug/kg	6.2	1		04/11/11 16:53	67-66-3	
Chloromethane	ND	ug/kg	6.2	1		04/11/11 16:53	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.2	1		04/11/11 16:53	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.2	1		04/11/11 16:53	106-43-4	
Dibromochloromethane	ND	ug/kg	6.2	1		04/11/11 16:53	124-48-1	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-5 5-6ft **Lab ID: 5047313005** Collected: 04/01/11 12:20 Received: 04/01/11 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
1,2-Dibromoethane (EDB)	ND	ug/kg	6.2	1		04/11/11 16:53	106-93-4	
Dibromomethane	ND	ug/kg	6.2	1		04/11/11 16:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.2	1		04/11/11 16:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.2	1		04/11/11 16:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.2	1		04/11/11 16:53	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	123	1		04/11/11 16:53	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	6.2	1		04/11/11 16:53	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.2	1		04/11/11 16:53	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.2	1		04/11/11 16:53	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.2	1		04/11/11 16:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.2	1		04/11/11 16:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.2	1		04/11/11 16:53	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.2	1		04/11/11 16:53	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.2	1		04/11/11 16:53	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.2	1		04/11/11 16:53	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.2	1		04/11/11 16:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	6.2	1		04/11/11 16:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.2	1		04/11/11 16:53	10061-02-6	
Ethylbenzene	ND	ug/kg	6.2	1		04/11/11 16:53	100-41-4	
Ethyl methacrylate	ND	ug/kg	123	1		04/11/11 16:53	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	6.2	1		04/11/11 16:53	87-68-3	
n-Hexane	ND	ug/kg	6.2	1		04/11/11 16:53	110-54-3	
2-Hexanone	ND	ug/kg	123	1		04/11/11 16:53	591-78-6	
Iodomethane	ND	ug/kg	123	1		04/11/11 16:53	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	6.2	1		04/11/11 16:53	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.2	1		04/11/11 16:53	99-87-6	
Methylene chloride	ND	ug/kg	24.6	1		04/11/11 16:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	30.8	1		04/11/11 16:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.2	1		04/11/11 16:53	1634-04-4	
Naphthalene	ND	ug/kg	6.2	1		04/11/11 16:53	91-20-3	
n-Propylbenzene	ND	ug/kg	6.2	1		04/11/11 16:53	103-65-1	
Styrene	ND	ug/kg	6.2	1		04/11/11 16:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.2	1		04/11/11 16:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.2	1		04/11/11 16:53	79-34-5	
Tetrachloroethene	ND	ug/kg	6.2	1		04/11/11 16:53	127-18-4	
Toluene	ND	ug/kg	6.2	1		04/11/11 16:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.2	1		04/11/11 16:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.2	1		04/11/11 16:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.2	1		04/11/11 16:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.2	1		04/11/11 16:53	79-00-5	
Trichloroethene	ND	ug/kg	6.2	1		04/11/11 16:53	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.2	1		04/11/11 16:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.2	1		04/11/11 16:53	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.2	1		04/11/11 16:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.2	1		04/11/11 16:53	108-67-8	
Vinyl acetate	ND	ug/kg	123	1		04/11/11 16:53	108-05-4	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-5 5-6ft **Lab ID: 5047313005** Collected: 04/01/11 12:20 Received: 04/01/11 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
Vinyl chloride	ND	ug/kg	6.2	1		04/11/11 16:53	75-01-4	
Xylene (Total)	ND	ug/kg	12.3	1		04/11/11 16:53	1330-20-7	
Dibromofluoromethane (S)	98	%	71-125	1		04/11/11 16:53	1868-53-7	
Toluene-d8 (S)	98	%	76-124	1		04/11/11 16:53	2037-26-5	
4-Bromofluorobenzene (S)	93	%	67-134	1		04/11/11 16:53	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**18.7**	%	0.10	1		04/07/11 14:31		

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-6 4-5ft **Lab ID: 5047313006** Collected: 04/01/11 13:20 Received: 04/01/11 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	83-32-9	
Acenaphthylene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	208-96-8	
Anthracene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	120-12-7	
Benzo(a)anthracene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	56-55-3	
Benzo(a)pyrene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	207-08-9	
Benzyl alcohol	ND	ug/kg	813	1	04/02/11 00:35	04/14/11 02:33	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	101-55-3	
Butylbenzylphthalate	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	813	1	04/02/11 00:35	04/14/11 02:33	59-50-7	
4-Chloroaniline	ND	ug/kg	813	1	04/02/11 00:35	04/14/11 02:33	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	108-60-1	
2-Chloronaphthalene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	91-58-7	
2-Chlorophenol	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	7005-72-3	
Chrysene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	53-70-3	
Dibenzofuran	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/kg	813	1	04/02/11 00:35	04/14/11 02:33	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	120-83-2	
Diethylphthalate	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	105-67-9	
Dimethylphthalate	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	131-11-3	
Di-n-butylphthalate	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1970	1	04/02/11 00:35	04/14/11 02:33	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1970	1	04/02/11 00:35	04/14/11 02:33	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	606-20-2	
Di-n-octylphthalate	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	117-81-7	
Fluoranthene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	206-44-0	
Fluorene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	87-68-3	
Hexachlorobenzene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	77-47-4	
Hexachloroethane	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	193-39-5	
Isophorone	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	78-59-1	
2-Methylnaphthalene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	813	1	04/02/11 00:35	04/14/11 02:33		

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-6 4-5ft **Lab ID: 5047313006** Collected: 04/01/11 13:20 Received: 04/01/11 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Naphthalene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	91-20-3	
2-Nitroaniline	ND	ug/kg	1970	1	04/02/11 00:35	04/14/11 02:33	88-74-4	
3-Nitroaniline	ND	ug/kg	1970	1	04/02/11 00:35	04/14/11 02:33	99-09-2	
4-Nitroaniline	ND	ug/kg	1970	1	04/02/11 00:35	04/14/11 02:33	100-01-6	
Nitrobenzene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	98-95-3	
2-Nitrophenol	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	88-75-5	
4-Nitrophenol	ND	ug/kg	1970	1	04/02/11 00:35	04/14/11 02:33	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	86-30-6	
Pentachlorophenol	ND	ug/kg	1970	1	04/02/11 00:35	04/14/11 02:33	87-86-5	
Phenanthrene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	85-01-8	
Phenol	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	108-95-2	
Pyrene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	129-00-0	
2,4,5-Trichlorophenol	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 02:33	88-06-2	
Nitrobenzene-d5 (S)	41	%	26-98	1	04/02/11 00:35	04/14/11 02:33	4165-60-0	
2-Fluorobiphenyl (S)	59	%	36-94	1	04/02/11 00:35	04/14/11 02:33	321-60-8	
Terphenyl-d14 (S)	53	%	32-112	1	04/02/11 00:35	04/14/11 02:33	1718-51-0	
Phenol-d6 (S)	64	%	33-98	1	04/02/11 00:35	04/14/11 02:33	13127-88-3	
2-Fluorophenol (S)	69	%	29-97	1	04/02/11 00:35	04/14/11 02:33	367-12-4	
2,4,6-Tribromophenol (S)	62	%	24-114	1	04/02/11 00:35	04/14/11 02:33	118-79-6	
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
Acetone	**137**	ug/kg	123	1		04/11/11 17:30	67-64-1	
Acrolein	ND	ug/kg	123	1		04/11/11 17:30	107-02-8	
Acrylonitrile	ND	ug/kg	123	1		04/11/11 17:30	107-13-1	
Benzene	ND	ug/kg	6.2	1		04/11/11 17:30	71-43-2	
Bromobenzene	ND	ug/kg	6.2	1		04/11/11 17:30	108-86-1	
Bromochloromethane	ND	ug/kg	6.2	1		04/11/11 17:30	74-97-5	
Bromodichloromethane	ND	ug/kg	6.2	1		04/11/11 17:30	75-27-4	
Bromoform	ND	ug/kg	6.2	1		04/11/11 17:30	75-25-2	
Bromomethane	ND	ug/kg	6.2	1		04/11/11 17:30	74-83-9	
2-Butanone (MEK)	ND	ug/kg	30.8	1		04/11/11 17:30	78-93-3	
n-Butylbenzene	ND	ug/kg	6.2	1		04/11/11 17:30	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.2	1		04/11/11 17:30	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.2	1		04/11/11 17:30	98-06-6	
Carbon disulfide	ND	ug/kg	12.3	1		04/11/11 17:30	75-15-0	
Carbon tetrachloride	ND	ug/kg	6.2	1		04/11/11 17:30	56-23-5	
Chlorobenzene	ND	ug/kg	6.2	1		04/11/11 17:30	108-90-7	
Chloroethane	ND	ug/kg	6.2	1		04/11/11 17:30	75-00-3	
Chloroform	ND	ug/kg	6.2	1		04/11/11 17:30	67-66-3	
Chloromethane	ND	ug/kg	6.2	1		04/11/11 17:30	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.2	1		04/11/11 17:30	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.2	1		04/11/11 17:30	106-43-4	
Dibromochloromethane	ND	ug/kg	6.2	1		04/11/11 17:30	124-48-1	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-6 4-5ft **Lab ID: 5047313006** Collected: 04/01/11 13:20 Received: 04/01/11 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
1,2-Dibromoethane (EDB)	ND	ug/kg	6.2	1		04/11/11 17:30	106-93-4	
Dibromomethane	ND	ug/kg	6.2	1		04/11/11 17:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.2	1		04/11/11 17:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.2	1		04/11/11 17:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.2	1		04/11/11 17:30	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	123	1		04/11/11 17:30	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	6.2	1		04/11/11 17:30	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.2	1		04/11/11 17:30	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.2	1		04/11/11 17:30	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.2	1		04/11/11 17:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.2	1		04/11/11 17:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.2	1		04/11/11 17:30	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.2	1		04/11/11 17:30	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.2	1		04/11/11 17:30	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.2	1		04/11/11 17:30	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.2	1		04/11/11 17:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	6.2	1		04/11/11 17:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.2	1		04/11/11 17:30	10061-02-6	
Ethylbenzene	ND	ug/kg	6.2	1		04/11/11 17:30	100-41-4	
Ethyl methacrylate	ND	ug/kg	123	1		04/11/11 17:30	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	6.2	1		04/11/11 17:30	87-68-3	
n-Hexane	ND	ug/kg	6.2	1		04/11/11 17:30	110-54-3	
2-Hexanone	ND	ug/kg	123	1		04/11/11 17:30	591-78-6	
Iodomethane	ND	ug/kg	123	1		04/11/11 17:30	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	6.2	1		04/11/11 17:30	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.2	1		04/11/11 17:30	99-87-6	
Methylene chloride	ND	ug/kg	24.6	1		04/11/11 17:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	30.8	1		04/11/11 17:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.2	1		04/11/11 17:30	1634-04-4	
Naphthalene	ND	ug/kg	6.2	1		04/11/11 17:30	91-20-3	
n-Propylbenzene	ND	ug/kg	6.2	1		04/11/11 17:30	103-65-1	
Styrene	ND	ug/kg	6.2	1		04/11/11 17:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.2	1		04/11/11 17:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.2	1		04/11/11 17:30	79-34-5	
Tetrachloroethene	ND	ug/kg	6.2	1		04/11/11 17:30	127-18-4	
Toluene	ND	ug/kg	6.2	1		04/11/11 17:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.2	1		04/11/11 17:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.2	1		04/11/11 17:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.2	1		04/11/11 17:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.2	1		04/11/11 17:30	79-00-5	
Trichloroethene	ND	ug/kg	6.2	1		04/11/11 17:30	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.2	1		04/11/11 17:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.2	1		04/11/11 17:30	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.2	1		04/11/11 17:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.2	1		04/11/11 17:30	108-67-8	
Vinyl acetate	ND	ug/kg	123	1		04/11/11 17:30	108-05-4	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-6 4-5ft **Lab ID: 5047313006** Collected: 04/01/11 13:20 Received: 04/01/11 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
Vinyl chloride	ND	ug/kg	6.2	1		04/11/11 17:30	75-01-4	
Xylene (Total)	ND	ug/kg	12.3	1		04/11/11 17:30	1330-20-7	
Dibromofluoromethane (S)	98	%	71-125	1		04/11/11 17:30	1868-53-7	
Toluene-d8 (S)	98	%	76-124	1		04/11/11 17:30	2037-26-5	
4-Bromofluorobenzene (S)	94	%	67-134	1		04/11/11 17:30	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**18.8**	%	0.10	1		04/07/11 14:31		

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: Duplicate **Lab ID: 5047313007** Collected: 04/01/11 08:00 Received: 04/01/11 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Acenaphthene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	83-32-9	
Acenaphthylene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	208-96-8	
Anthracene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	120-12-7	
Benzo(a)anthracene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	56-55-3	
Benzo(a)pyrene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	207-08-9	
Benzyl alcohol	ND	ug/kg	813	1	04/02/11 00:35	04/14/11 03:53	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	101-55-3	
Butylbenzylphthalate	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	85-68-7	
4-Chloro-3-methylphenol	ND	ug/kg	813	1	04/02/11 00:35	04/14/11 03:53	59-50-7	
4-Chloroaniline	ND	ug/kg	813	1	04/02/11 00:35	04/14/11 03:53	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	108-60-1	
2-Chloronaphthalene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	91-58-7	
2-Chlorophenol	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	7005-72-3	
Chrysene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	53-70-3	
Dibenzofuran	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/kg	813	1	04/02/11 00:35	04/14/11 03:53	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	120-83-2	
Diethylphthalate	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	105-67-9	
Dimethylphthalate	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	131-11-3	
Di-n-butylphthalate	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1970	1	04/02/11 00:35	04/14/11 03:53	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1970	1	04/02/11 00:35	04/14/11 03:53	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	606-20-2	
Di-n-octylphthalate	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	117-81-7	
Fluoranthene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	206-44-0	
Fluorene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	87-68-3	
Hexachlorobenzene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	77-47-4	
Hexachloroethane	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	193-39-5	
Isophorone	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	78-59-1	
2-Methylnaphthalene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	813	1	04/02/11 00:35	04/14/11 03:53		

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: Duplicate **Lab ID: 5047313007** Collected: 04/01/11 08:00 Received: 04/01/11 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV SHORT LIST MICROWAVE	Analytical Method: EPA 8270 Preparation Method: EPA 3546							
Naphthalene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	91-20-3	
2-Nitroaniline	ND	ug/kg	1970	1	04/02/11 00:35	04/14/11 03:53	88-74-4	
3-Nitroaniline	ND	ug/kg	1970	1	04/02/11 00:35	04/14/11 03:53	99-09-2	
4-Nitroaniline	ND	ug/kg	1970	1	04/02/11 00:35	04/14/11 03:53	100-01-6	
Nitrobenzene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	98-95-3	
2-Nitrophenol	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	88-75-5	
4-Nitrophenol	ND	ug/kg	1970	1	04/02/11 00:35	04/14/11 03:53	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	86-30-6	
Pentachlorophenol	ND	ug/kg	1970	1	04/02/11 00:35	04/14/11 03:53	87-86-5	
Phenanthrene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	85-01-8	
Phenol	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	108-95-2	
Pyrene	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	129-00-0	
2,4,5-Trichlorophenol	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	406	1	04/02/11 00:35	04/14/11 03:53	88-06-2	
Nitrobenzene-d5 (S)	40	%	26-98	1	04/02/11 00:35	04/14/11 03:53	4165-60-0	
2-Fluorobiphenyl (S)	57	%	36-94	1	04/02/11 00:35	04/14/11 03:53	321-60-8	
Terphenyl-d14 (S)	45	%	32-112	1	04/02/11 00:35	04/14/11 03:53	1718-51-0	
Phenol-d6 (S)	65	%	33-98	1	04/02/11 00:35	04/14/11 03:53	13127-88-3	
2-Fluorophenol (S)	67	%	29-97	1	04/02/11 00:35	04/14/11 03:53	367-12-4	
2,4,6-Tribromophenol (S)	59	%	24-114	1	04/02/11 00:35	04/14/11 03:53	118-79-6	
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
Acetone	**193**	ug/kg	123	1		04/11/11 18:08	67-64-1	
Acrolein	ND	ug/kg	123	1		04/11/11 18:08	107-02-8	
Acrylonitrile	ND	ug/kg	123	1		04/11/11 18:08	107-13-1	
Benzene	ND	ug/kg	6.2	1		04/11/11 18:08	71-43-2	
Bromobenzene	ND	ug/kg	6.2	1		04/11/11 18:08	108-86-1	
Bromochloromethane	ND	ug/kg	6.2	1		04/11/11 18:08	74-97-5	
Bromodichloromethane	ND	ug/kg	6.2	1		04/11/11 18:08	75-27-4	
Bromoform	ND	ug/kg	6.2	1		04/11/11 18:08	75-25-2	
Bromomethane	ND	ug/kg	6.2	1		04/11/11 18:08	74-83-9	
2-Butanone (MEK)	ND	ug/kg	30.8	1		04/11/11 18:08	78-93-3	
n-Butylbenzene	ND	ug/kg	6.2	1		04/11/11 18:08	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.2	1		04/11/11 18:08	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.2	1		04/11/11 18:08	98-06-6	
Carbon disulfide	ND	ug/kg	12.3	1		04/11/11 18:08	75-15-0	
Carbon tetrachloride	ND	ug/kg	6.2	1		04/11/11 18:08	56-23-5	
Chlorobenzene	ND	ug/kg	6.2	1		04/11/11 18:08	108-90-7	
Chloroethane	ND	ug/kg	6.2	1		04/11/11 18:08	75-00-3	
Chloroform	ND	ug/kg	6.2	1		04/11/11 18:08	67-66-3	
Chloromethane	ND	ug/kg	6.2	1		04/11/11 18:08	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.2	1		04/11/11 18:08	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.2	1		04/11/11 18:08	106-43-4	
Dibromochloromethane	ND	ug/kg	6.2	1		04/11/11 18:08	124-48-1	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: Duplicate **Lab ID: 5047313007** Collected: 04/01/11 08:00 Received: 04/01/11 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
1,2-Dibromoethane (EDB)	ND	ug/kg	6.2	1		04/11/11 18:08	106-93-4	
Dibromomethane	ND	ug/kg	6.2	1		04/11/11 18:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.2	1		04/11/11 18:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.2	1		04/11/11 18:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.2	1		04/11/11 18:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	123	1		04/11/11 18:08	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	6.2	1		04/11/11 18:08	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.2	1		04/11/11 18:08	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.2	1		04/11/11 18:08	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.2	1		04/11/11 18:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.2	1		04/11/11 18:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.2	1		04/11/11 18:08	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.2	1		04/11/11 18:08	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.2	1		04/11/11 18:08	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.2	1		04/11/11 18:08	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.2	1		04/11/11 18:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	6.2	1		04/11/11 18:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.2	1		04/11/11 18:08	10061-02-6	
Ethylbenzene	ND	ug/kg	6.2	1		04/11/11 18:08	100-41-4	
Ethyl methacrylate	ND	ug/kg	123	1		04/11/11 18:08	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	6.2	1		04/11/11 18:08	87-68-3	
n-Hexane	ND	ug/kg	6.2	1		04/11/11 18:08	110-54-3	
2-Hexanone	ND	ug/kg	123	1		04/11/11 18:08	591-78-6	
Iodomethane	ND	ug/kg	123	1		04/11/11 18:08	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	6.2	1		04/11/11 18:08	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.2	1		04/11/11 18:08	99-87-6	
Methylene chloride	ND	ug/kg	24.6	1		04/11/11 18:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	30.8	1		04/11/11 18:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.2	1		04/11/11 18:08	1634-04-4	
Naphthalene	ND	ug/kg	6.2	1		04/11/11 18:08	91-20-3	
n-Propylbenzene	ND	ug/kg	6.2	1		04/11/11 18:08	103-65-1	
Styrene	ND	ug/kg	6.2	1		04/11/11 18:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.2	1		04/11/11 18:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.2	1		04/11/11 18:08	79-34-5	
Tetrachloroethene	ND	ug/kg	6.2	1		04/11/11 18:08	127-18-4	
Toluene	ND	ug/kg	6.2	1		04/11/11 18:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.2	1		04/11/11 18:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.2	1		04/11/11 18:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.2	1		04/11/11 18:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.2	1		04/11/11 18:08	79-00-5	
Trichloroethene	ND	ug/kg	6.2	1		04/11/11 18:08	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.2	1		04/11/11 18:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.2	1		04/11/11 18:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.2	1		04/11/11 18:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.2	1		04/11/11 18:08	108-67-8	
Vinyl acetate	ND	ug/kg	123	1		04/11/11 18:08	108-05-4	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: Duplicate **Lab ID: 5047313007** Collected: 04/01/11 08:00 Received: 04/01/11 15:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260							
Vinyl chloride	ND	ug/kg	6.2	1		04/11/11 18:08	75-01-4	
Xylene (Total)	ND	ug/kg	12.3	1		04/11/11 18:08	1330-20-7	
Dibromofluoromethane (S)	97	%	71-125	1		04/11/11 18:08	1868-53-7	
Toluene-d8 (S)	98	%	76-124	1		04/11/11 18:08	2037-26-5	
4-Bromofluorobenzene (S)	93	%	67-134	1		04/11/11 18:08	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**18.8**	%	0.10	1		04/07/11 14:31		

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-1 GW **Lab ID: 5047313008** Collected: 04/01/11 09:45 Received: 04/01/11 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	04/04/11 10:44	04/05/11 08:47	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	04/04/11 10:44	04/05/11 08:47	208-96-8	
Anthracene	ND	ug/L	0.10	1	04/04/11 10:44	04/05/11 08:47	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	04/04/11 10:44	04/05/11 08:47	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	04/04/11 10:44	04/05/11 08:47	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	04/04/11 10:44	04/05/11 08:47	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	04/04/11 10:44	04/05/11 08:47	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	04/04/11 10:44	04/05/11 08:47	207-08-9	
Chrysene	ND	ug/L	0.52	1	04/04/11 10:44	04/05/11 08:47	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	04/04/11 10:44	04/05/11 08:47	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	04/04/11 10:44	04/05/11 08:47	206-44-0	
Fluorene	ND	ug/L	1.0	1	04/04/11 10:44	04/05/11 08:47	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	04/04/11 10:44	04/05/11 08:47	193-39-5	
2-Methylnaphthalene	ND	ug/L	1.0	1	04/04/11 10:44	04/05/11 08:47	91-57-6	
Naphthalene	ND	ug/L	1.0	1	04/04/11 10:44	04/05/11 08:47	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	04/04/11 10:44	04/05/11 08:47	85-01-8	
Pyrene	ND	ug/L	1.0	1	04/04/11 10:44	04/05/11 08:47	129-00-0	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	83-32-9	
Acenaphthylene	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	208-96-8	
Anthracene	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	207-08-9	
Benzyl alcohol	ND	ug/L	20.6	1	04/04/11 10:44	04/05/11 21:14	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.6	1	04/04/11 10:44	04/05/11 21:14	59-50-7	
4-Chloroaniline	ND	ug/L	20.6	1	04/04/11 10:44	04/05/11 21:14	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/L	5.2	1	04/04/11 10:44	04/05/11 21:14	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	91-58-7	
2-Chlorophenol	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	7005-72-3	
Chrysene	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	53-70-3	
Dibenzofuran	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/L	20.6	1	04/04/11 10:44	04/05/11 21:14	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	120-83-2	
Diethylphthalate	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	105-67-9	
Dimethylphthalate	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	84-74-2	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-1 GW **Lab ID: 5047313008** Collected: 04/01/11 09:45 Received: 04/01/11 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
4,6-Dinitro-2-methylphenol	ND	ug/L	51.5	1	04/04/11 10:44	04/05/11 21:14	534-52-1	
2,4-Dinitrophenol	ND	ug/L	51.5	1	04/04/11 10:44	04/05/11 21:14	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.2	1	04/04/11 10:44	04/05/11 21:14	117-81-7	
Fluoranthene	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	206-44-0	
Fluorene	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	5.2	1	04/04/11 10:44	04/05/11 21:14	87-68-3	
Hexachlorobenzene	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	20.6	1	04/04/11 10:44	04/05/11 21:14	77-47-4	
Hexachloroethane	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	193-39-5	
Isophorone	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	78-59-1	
2-Methylnaphthalene	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	20.6	1	04/04/11 10:44	04/05/11 21:14		
Naphthalene	ND	ug/L	5.2	1	04/04/11 10:44	04/05/11 21:14	91-20-3	
2-Nitroaniline	ND	ug/L	51.5	1	04/04/11 10:44	04/05/11 21:14	88-74-4	
3-Nitroaniline	ND	ug/L	51.5	1	04/04/11 10:44	04/05/11 21:14	99-09-2	
4-Nitroaniline	ND	ug/L	51.5	1	04/04/11 10:44	04/05/11 21:14	100-01-6	
Nitrobenzene	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	98-95-3	
2-Nitrophenol	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	88-75-5	
4-Nitrophenol	ND	ug/L	51.5	1	04/04/11 10:44	04/05/11 21:14	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	86-30-6	
Pentachlorophenol	ND	ug/L	51.5	1	04/04/11 10:44	04/05/11 21:14	87-86-5	
Phenanthrene	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	85-01-8	
Phenol	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	108-95-2	
Pyrene	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	129-00-0	
2,4,5-Trichlorophenol	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.3	1	04/04/11 10:44	04/05/11 21:14	88-06-2	
Nitrobenzene-d5 (S)	75	%	33-108	1	04/04/11 10:44	04/05/11 21:14	4165-60-0	
2-Fluorobiphenyl (S)	76	%	34-106	1	04/04/11 10:44	04/05/11 21:14	321-60-8	
Terphenyl-d14 (S)	97	%	31-122	1	04/04/11 10:44	04/05/11 21:14	1718-51-0	
Phenol-d6 (S)	23	%	10-56	1	04/04/11 10:44	04/05/11 21:14	13127-88-3	
2-Fluorophenol (S)	36	%	10-74	1	04/04/11 10:44	04/05/11 21:14	367-12-4	
2,4,6-Tribromophenol (S)	103	%	32-124	1	04/04/11 10:44	04/05/11 21:14	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/11/11 09:23	67-64-1	
Acrolein	ND	ug/L	50.0	1		04/11/11 09:23	107-02-8	
Acrylonitrile	ND	ug/L	100	1		04/11/11 09:23	107-13-1	
Benzene	ND	ug/L	5.0	1		04/11/11 09:23	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		04/11/11 09:23	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		04/11/11 09:23	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		04/11/11 09:23	75-27-4	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-1 GW **Lab ID: 5047313008** Collected: 04/01/11 09:45 Received: 04/01/11 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Bromoform	ND	ug/L	5.0	1		04/11/11 09:23	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/11/11 09:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/11/11 09:23	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		04/11/11 09:23	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		04/11/11 09:23	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		04/11/11 09:23	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		04/11/11 09:23	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/11/11 09:23	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/11/11 09:23	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/11/11 09:23	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/11/11 09:23	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/11/11 09:23	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		04/11/11 09:23	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		04/11/11 09:23	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		04/11/11 09:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/11/11 09:23	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		04/11/11 09:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/11/11 09:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/11/11 09:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/11/11 09:23	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		04/11/11 09:23	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/11/11 09:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/11/11 09:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/11/11 09:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/11/11 09:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/11/11 09:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/11/11 09:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/11/11 09:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		04/11/11 09:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		04/11/11 09:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		04/11/11 09:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/11/11 09:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/11/11 09:23	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/11/11 09:23	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		04/11/11 09:23	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		04/11/11 09:23	87-68-3	
n-Hexane	ND	ug/L	5.0	1		04/11/11 09:23	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		04/11/11 09:23	591-78-6	
Iodomethane	ND	ug/L	10.0	1		04/11/11 09:23	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/11/11 09:23	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		04/11/11 09:23	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		04/11/11 09:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/11/11 09:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/11/11 09:23	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		04/11/11 09:23	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		04/11/11 09:23	103-65-1	
Styrene	ND	ug/L	5.0	1		04/11/11 09:23	100-42-5	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-1 GW **Lab ID: 5047313008** Collected: 04/01/11 09:45 Received: 04/01/11 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		04/11/11 09:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/11/11 09:23	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/11/11 09:23	127-18-4	
Toluene	ND	ug/L	5.0	1		04/11/11 09:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/11/11 09:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/11/11 09:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/11/11 09:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/11/11 09:23	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/11/11 09:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/11/11 09:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		04/11/11 09:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		04/11/11 09:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		04/11/11 09:23	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		04/11/11 09:23	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		04/11/11 09:23	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/11/11 09:23	1330-20-7	
Dibromofluoromethane (S)	99	%	83-123	1		04/11/11 09:23	1868-53-7	
4-Bromofluorobenzene (S)	95	%	72-125	1		04/11/11 09:23	460-00-4	
Toluene-d8 (S)	97	%	81-114	1		04/11/11 09:23	2037-26-5	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-3 GW **Lab ID: 5047313009** Collected: 04/01/11 12:40 Received: 04/01/11 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	1.0	1	04/04/11 10:44	04/05/11 09:05	83-32-9	
Acenaphthylene	ND	ug/L	1.0	1	04/04/11 10:44	04/05/11 09:05	208-96-8	
Anthracene	ND	ug/L	0.10	1	04/04/11 10:44	04/05/11 09:05	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	1	04/04/11 10:44	04/05/11 09:05	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.10	1	04/04/11 10:44	04/05/11 09:05	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	1	04/04/11 10:44	04/05/11 09:05	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	1	04/04/11 10:44	04/05/11 09:05	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	1	04/04/11 10:44	04/05/11 09:05	207-08-9	
Chrysene	ND	ug/L	0.52	1	04/04/11 10:44	04/05/11 09:05	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	1	04/04/11 10:44	04/05/11 09:05	53-70-3	
Fluoranthene	ND	ug/L	1.0	1	04/04/11 10:44	04/05/11 09:05	206-44-0	
Fluorene	ND	ug/L	1.0	1	04/04/11 10:44	04/05/11 09:05	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	1	04/04/11 10:44	04/05/11 09:05	193-39-5	
2-Methylnaphthalene	ND	ug/L	1.0	1	04/04/11 10:44	04/05/11 09:05	91-57-6	
Naphthalene	ND	ug/L	1.0	1	04/04/11 10:44	04/05/11 09:05	91-20-3	
Phenanthrene	ND	ug/L	1.0	1	04/04/11 10:44	04/05/11 09:05	85-01-8	
Pyrene	ND	ug/L	1.0	1	04/04/11 10:44	04/05/11 09:05	129-00-0	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	83-32-9	
Acenaphthylene	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	208-96-8	
Anthracene	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	207-08-9	
Benzyl alcohol	ND	ug/L	20.8	1	04/04/11 10:44	04/05/11 21:33	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.8	1	04/04/11 10:44	04/05/11 21:33	59-50-7	
4-Chloroaniline	ND	ug/L	20.8	1	04/04/11 10:44	04/05/11 21:33	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	111-44-4	
bis(2chloro1methylethyl) ether	ND	ug/L	5.2	1	04/04/11 10:44	04/05/11 21:33	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	91-58-7	
2-Chlorophenol	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	7005-72-3	
Chrysene	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	53-70-3	
Dibenzofuran	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	132-64-9	
3,3'-Dichlorobenzidine	ND	ug/L	20.8	1	04/04/11 10:44	04/05/11 21:33	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	120-83-2	
Diethylphthalate	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	105-67-9	
Dimethylphthalate	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	84-74-2	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-3 GW **Lab ID: 5047313009** Collected: 04/01/11 12:40 Received: 04/01/11 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
4,6-Dinitro-2-methylphenol	ND	ug/L	52.1	1	04/04/11 10:44	04/05/11 21:33	534-52-1	
2,4-Dinitrophenol	ND	ug/L	52.1	1	04/04/11 10:44	04/05/11 21:33	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.2	1	04/04/11 10:44	04/05/11 21:33	117-81-7	
Fluoranthene	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	206-44-0	
Fluorene	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	5.2	1	04/04/11 10:44	04/05/11 21:33	87-68-3	
Hexachlorobenzene	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	20.8	1	04/04/11 10:44	04/05/11 21:33	77-47-4	
Hexachloroethane	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	193-39-5	
Isophorone	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	78-59-1	
2-Methylnaphthalene	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	20.8	1	04/04/11 10:44	04/05/11 21:33		
Naphthalene	ND	ug/L	5.2	1	04/04/11 10:44	04/05/11 21:33	91-20-3	
2-Nitroaniline	ND	ug/L	52.1	1	04/04/11 10:44	04/05/11 21:33	88-74-4	
3-Nitroaniline	ND	ug/L	52.1	1	04/04/11 10:44	04/05/11 21:33	99-09-2	
4-Nitroaniline	ND	ug/L	52.1	1	04/04/11 10:44	04/05/11 21:33	100-01-6	
Nitrobenzene	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	98-95-3	
2-Nitrophenol	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	88-75-5	
4-Nitrophenol	ND	ug/L	52.1	1	04/04/11 10:44	04/05/11 21:33	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	86-30-6	
Pentachlorophenol	ND	ug/L	52.1	1	04/04/11 10:44	04/05/11 21:33	87-86-5	
Phenanthrene	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	85-01-8	
Phenol	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	108-95-2	
Pyrene	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	129-00-0	
2,4,5-Trichlorophenol	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.4	1	04/04/11 10:44	04/05/11 21:33	88-06-2	
Nitrobenzene-d5 (S)	75	%	33-108	1	04/04/11 10:44	04/05/11 21:33	4165-60-0	
2-Fluorobiphenyl (S)	79	%	34-106	1	04/04/11 10:44	04/05/11 21:33	321-60-8	
Terphenyl-d14 (S)	99	%	31-122	1	04/04/11 10:44	04/05/11 21:33	1718-51-0	
Phenol-d6 (S)	25	%	10-56	1	04/04/11 10:44	04/05/11 21:33	13127-88-3	
2-Fluorophenol (S)	39	%	10-74	1	04/04/11 10:44	04/05/11 21:33	367-12-4	
2,4,6-Tribromophenol (S)	105	%	32-124	1	04/04/11 10:44	04/05/11 21:33	118-79-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/11/11 11:16	67-64-1	
Acrolein	ND	ug/L	50.0	1		04/11/11 11:16	107-02-8	
Acrylonitrile	ND	ug/L	100	1		04/11/11 11:16	107-13-1	
Benzene	ND	ug/L	5.0	1		04/11/11 11:16	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		04/11/11 11:16	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		04/11/11 11:16	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		04/11/11 11:16	75-27-4	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-3 GW **Lab ID: 5047313009** Collected: 04/01/11 12:40 Received: 04/01/11 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Bromoform	ND	ug/L	5.0	1		04/11/11 11:16	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/11/11 11:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/11/11 11:16	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		04/11/11 11:16	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		04/11/11 11:16	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		04/11/11 11:16	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		04/11/11 11:16	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/11/11 11:16	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/11/11 11:16	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/11/11 11:16	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/11/11 11:16	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/11/11 11:16	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		04/11/11 11:16	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		04/11/11 11:16	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		04/11/11 11:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/11/11 11:16	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		04/11/11 11:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/11/11 11:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/11/11 11:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/11/11 11:16	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		04/11/11 11:16	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/11/11 11:16	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/11/11 11:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/11/11 11:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/11/11 11:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/11/11 11:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/11/11 11:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/11/11 11:16	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		04/11/11 11:16	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		04/11/11 11:16	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		04/11/11 11:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/11/11 11:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/11/11 11:16	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/11/11 11:16	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		04/11/11 11:16	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		04/11/11 11:16	87-68-3	
n-Hexane	ND	ug/L	5.0	1		04/11/11 11:16	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		04/11/11 11:16	591-78-6	
Iodomethane	ND	ug/L	10.0	1		04/11/11 11:16	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/11/11 11:16	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		04/11/11 11:16	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		04/11/11 11:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/11/11 11:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/11/11 11:16	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		04/11/11 11:16	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		04/11/11 11:16	103-65-1	
Styrene	ND	ug/L	5.0	1		04/11/11 11:16	100-42-5	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: B-3 GW **Lab ID: 5047313009** Collected: 04/01/11 12:40 Received: 04/01/11 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		04/11/11 11:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/11/11 11:16	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/11/11 11:16	127-18-4	
Toluene	ND	ug/L	5.0	1		04/11/11 11:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/11/11 11:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/11/11 11:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/11/11 11:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/11/11 11:16	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/11/11 11:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/11/11 11:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		04/11/11 11:16	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		04/11/11 11:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		04/11/11 11:16	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		04/11/11 11:16	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		04/11/11 11:16	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/11/11 11:16	1330-20-7	
Dibromofluoromethane (S)	98	%	83-123	1		04/11/11 11:16	1868-53-7	
4-Bromofluorobenzene (S)	94	%	72-125	1		04/11/11 11:16	460-00-4	
Toluene-d8 (S)	99	%	81-114	1		04/11/11 11:16	2037-26-5	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: Duplicate GW **Lab ID: 5047313010** Collected: 04/01/11 08:00 Received: 04/01/11 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/11/11 11:53	67-64-1	
Acrolein	ND	ug/L	50.0	1		04/11/11 11:53	107-02-8	
Acrylonitrile	ND	ug/L	100	1		04/11/11 11:53	107-13-1	
Benzene	ND	ug/L	5.0	1		04/11/11 11:53	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		04/11/11 11:53	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		04/11/11 11:53	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		04/11/11 11:53	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/11/11 11:53	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/11/11 11:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/11/11 11:53	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		04/11/11 11:53	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		04/11/11 11:53	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		04/11/11 11:53	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		04/11/11 11:53	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/11/11 11:53	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/11/11 11:53	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/11/11 11:53	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/11/11 11:53	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/11/11 11:53	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		04/11/11 11:53	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		04/11/11 11:53	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		04/11/11 11:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/11/11 11:53	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		04/11/11 11:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/11/11 11:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/11/11 11:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/11/11 11:53	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		04/11/11 11:53	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/11/11 11:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/11/11 11:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/11/11 11:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/11/11 11:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/11/11 11:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/11/11 11:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/11/11 11:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		04/11/11 11:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		04/11/11 11:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		04/11/11 11:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/11/11 11:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/11/11 11:53	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/11/11 11:53	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		04/11/11 11:53	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		04/11/11 11:53	87-68-3	
n-Hexane	ND	ug/L	5.0	1		04/11/11 11:53	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		04/11/11 11:53	591-78-6	
Iodomethane	ND	ug/L	10.0	1		04/11/11 11:53	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/11/11 11:53	98-82-8	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: Duplicate GW **Lab ID: 5047313010** Collected: 04/01/11 08:00 Received: 04/01/11 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		04/11/11 11:53	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		04/11/11 11:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/11/11 11:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/11/11 11:53	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		04/11/11 11:53	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		04/11/11 11:53	103-65-1	
Styrene	ND	ug/L	5.0	1		04/11/11 11:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		04/11/11 11:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/11/11 11:53	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/11/11 11:53	127-18-4	
Toluene	ND	ug/L	5.0	1		04/11/11 11:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/11/11 11:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/11/11 11:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/11/11 11:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/11/11 11:53	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/11/11 11:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/11/11 11:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		04/11/11 11:53	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		04/11/11 11:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		04/11/11 11:53	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		04/11/11 11:53	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		04/11/11 11:53	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/11/11 11:53	1330-20-7	
Dibromofluoromethane (S)	101	%	83-123	1		04/11/11 11:53	1868-53-7	
4-Bromofluorobenzene (S)	93	%	72-125	1		04/11/11 11:53	460-00-4	
Toluene-d8 (S)	99	%	81-114	1		04/11/11 11:53	2037-26-5	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: Trip Blank **Lab ID: 5047313011** Collected: 04/01/11 08:00 Received: 04/01/11 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		04/11/11 12:31	67-64-1	
Acrolein	ND	ug/L	50.0	1		04/11/11 12:31	107-02-8	
Acrylonitrile	ND	ug/L	100	1		04/11/11 12:31	107-13-1	
Benzene	ND	ug/L	5.0	1		04/11/11 12:31	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		04/11/11 12:31	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		04/11/11 12:31	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		04/11/11 12:31	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/11/11 12:31	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/11/11 12:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		04/11/11 12:31	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		04/11/11 12:31	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		04/11/11 12:31	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		04/11/11 12:31	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		04/11/11 12:31	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/11/11 12:31	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/11/11 12:31	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/11/11 12:31	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/11/11 12:31	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/11/11 12:31	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		04/11/11 12:31	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		04/11/11 12:31	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		04/11/11 12:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		04/11/11 12:31	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		04/11/11 12:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/11/11 12:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/11/11 12:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/11/11 12:31	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		04/11/11 12:31	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		04/11/11 12:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/11/11 12:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/11/11 12:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/11/11 12:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/11/11 12:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/11/11 12:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/11/11 12:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		04/11/11 12:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		04/11/11 12:31	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		04/11/11 12:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/11/11 12:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/11/11 12:31	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/11/11 12:31	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		04/11/11 12:31	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		04/11/11 12:31	87-68-3	
n-Hexane	ND	ug/L	5.0	1		04/11/11 12:31	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		04/11/11 12:31	591-78-6	
Iodomethane	ND	ug/L	10.0	1		04/11/11 12:31	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		04/11/11 12:31	98-82-8	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

Sample: Trip Blank **Lab ID: 5047313011** Collected: 04/01/11 08:00 Received: 04/01/11 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		04/11/11 12:31	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		04/11/11 12:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		04/11/11 12:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		04/11/11 12:31	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		04/11/11 12:31	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		04/11/11 12:31	103-65-1	
Styrene	ND	ug/L	5.0	1		04/11/11 12:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		04/11/11 12:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/11/11 12:31	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/11/11 12:31	127-18-4	
Toluene	ND	ug/L	5.0	1		04/11/11 12:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		04/11/11 12:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		04/11/11 12:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/11/11 12:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/11/11 12:31	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/11/11 12:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/11/11 12:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		04/11/11 12:31	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		04/11/11 12:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		04/11/11 12:31	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		04/11/11 12:31	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		04/11/11 12:31	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/11/11 12:31	1330-20-7	
Dibromofluoromethane (S)	99	%	83-123	1		04/11/11 12:31	1868-53-7	
4-Bromofluorobenzene (S)	94	%	72-125	1		04/11/11 12:31	460-00-4	
Toluene-d8 (S)	99	%	81-114	1		04/11/11 12:31	2037-26-5	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

QC Batch: OEXT/24082 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave Short Spike
Associated Lab Samples: 5047313001, 5047313002, 5047313003, 5047313005, 5047313006, 5047313007

METHOD BLANK: 556377 Matrix: Solid
Associated Lab Samples: 5047313001, 5047313002, 5047313003, 5047313005, 5047313006, 5047313007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-Trichlorophenol	ug/kg	ND	330	04/13/11 15:54	
2,4,6-Trichlorophenol	ug/kg	ND	330	04/13/11 15:54	
2,4-Dichlorophenol	ug/kg	ND	330	04/13/11 15:54	
2,4-Dimethylphenol	ug/kg	ND	330	04/13/11 15:54	
2,4-Dinitrophenol	ug/kg	ND	1600	04/13/11 15:54	
2,4-Dinitrotoluene	ug/kg	ND	330	04/13/11 15:54	
2,6-Dinitrotoluene	ug/kg	ND	330	04/13/11 15:54	
2-Chloronaphthalene	ug/kg	ND	330	04/13/11 15:54	
2-Chlorophenol	ug/kg	ND	330	04/13/11 15:54	
2-Methylnaphthalene	ug/kg	ND	330	04/13/11 15:54	
2-Methylphenol(o-Cresol)	ug/kg	ND	330	04/13/11 15:54	
2-Nitroaniline	ug/kg	ND	1600	04/13/11 15:54	
2-Nitrophenol	ug/kg	ND	330	04/13/11 15:54	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	660	04/13/11 15:54	
3,3'-Dichlorobenzidine	ug/kg	ND	660	04/13/11 15:54	
3-Nitroaniline	ug/kg	ND	1600	04/13/11 15:54	
4,6-Dinitro-2-methylphenol	ug/kg	ND	1600	04/13/11 15:54	
4-Bromophenylphenyl ether	ug/kg	ND	330	04/13/11 15:54	
4-Chloro-3-methylphenol	ug/kg	ND	660	04/13/11 15:54	
4-Chloroaniline	ug/kg	ND	660	04/13/11 15:54	
4-Chlorophenylphenyl ether	ug/kg	ND	330	04/13/11 15:54	
4-Nitroaniline	ug/kg	ND	1600	04/13/11 15:54	
4-Nitrophenol	ug/kg	ND	1600	04/13/11 15:54	
Acenaphthene	ug/kg	ND	330	04/13/11 15:54	
Acenaphthylene	ug/kg	ND	330	04/13/11 15:54	
Anthracene	ug/kg	ND	330	04/13/11 15:54	
Benzo(a)anthracene	ug/kg	ND	330	04/13/11 15:54	
Benzo(a)pyrene	ug/kg	ND	330	04/13/11 15:54	
Benzo(b)fluoranthene	ug/kg	ND	330	04/13/11 15:54	
Benzo(g,h,i)perylene	ug/kg	ND	330	04/13/11 15:54	
Benzo(k)fluoranthene	ug/kg	ND	330	04/13/11 15:54	
Benzyl alcohol	ug/kg	ND	660	04/13/11 15:54	
bis(2-Chloroethoxy)methane	ug/kg	ND	330	04/13/11 15:54	
bis(2-Chloroethyl) ether	ug/kg	ND	330	04/13/11 15:54	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	04/13/11 15:54	
bis(2chloro1methylethyl) ether	ug/kg	ND	330	04/13/11 15:54	
Butylbenzylphthalate	ug/kg	ND	330	04/13/11 15:54	
Chrysene	ug/kg	ND	330	04/13/11 15:54	
Di-n-butylphthalate	ug/kg	ND	330	04/13/11 15:54	
Di-n-octylphthalate	ug/kg	ND	330	04/13/11 15:54	
Dibenz(a,h)anthracene	ug/kg	ND	330	04/13/11 15:54	
Dibenzofuran	ug/kg	ND	330	04/13/11 15:54	
Diethylphthalate	ug/kg	ND	330	04/13/11 15:54	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

METHOD BLANK: 556377 Matrix: Solid

Associated Lab Samples: 5047313001, 5047313002, 5047313003, 5047313005, 5047313006, 5047313007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dimethylphthalate	ug/kg	ND	330	04/13/11 15:54	
Fluoranthene	ug/kg	ND	330	04/13/11 15:54	
Fluorene	ug/kg	ND	330	04/13/11 15:54	
Hexachloro-1,3-butadiene	ug/kg	ND	330	04/13/11 15:54	
Hexachlorobenzene	ug/kg	ND	330	04/13/11 15:54	
Hexachlorocyclopentadiene	ug/kg	ND	330	04/13/11 15:54	
Hexachloroethane	ug/kg	ND	330	04/13/11 15:54	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	330	04/13/11 15:54	
Isophorone	ug/kg	ND	330	04/13/11 15:54	
N-Nitroso-di-n-propylamine	ug/kg	ND	330	04/13/11 15:54	
N-Nitrosodiphenylamine	ug/kg	ND	330	04/13/11 15:54	
Naphthalene	ug/kg	ND	330	04/13/11 15:54	
Nitrobenzene	ug/kg	ND	330	04/13/11 15:54	
Pentachlorophenol	ug/kg	ND	1600	04/13/11 15:54	
Phenanthrene	ug/kg	ND	330	04/13/11 15:54	
Phenol	ug/kg	ND	330	04/13/11 15:54	
Pyrene	ug/kg	ND	330	04/13/11 15:54	
2,4,6-Tribromophenol (S)	%	52	24-114	04/13/11 15:54	
2-Fluorobiphenyl (S)	%	57	36-94	04/13/11 15:54	
2-Fluorophenol (S)	%	59	29-97	04/13/11 15:54	
Nitrobenzene-d5 (S)	%	55	26-98	04/13/11 15:54	
Phenol-d6 (S)	%	58	33-98	04/13/11 15:54	
Terphenyl-d14 (S)	%	58	32-112	04/13/11 15:54	

LABORATORY CONTROL SAMPLE: 556378

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	ug/kg	3330	1900	57	49-102	
2-Chlorophenol	ug/kg	3330	1920	58	44-98	
2-Methylnaphthalene	ug/kg	3330	1920	58	49-94	
4-Chloro-3-methylphenol	ug/kg	3330	1980	59	53-103	
4-Nitrophenol	ug/kg	3330	1470J	44	25-110	
Acenaphthene	ug/kg	3330	1980	59	55-103	
Acenaphthylene	ug/kg	3330	1930	58	58-107	
Anthracene	ug/kg	3330	2000	60	57-113	
Benzo(a)anthracene	ug/kg	3330	2050	61	56-110	
Benzo(a)pyrene	ug/kg	3330	2060	62	59-110	
Benzo(b)fluoranthene	ug/kg	3330	2170	65	53-109	
Benzo(g,h,i)perylene	ug/kg	3330	2040	61	55-109	
Benzo(k)fluoranthene	ug/kg	3330	1960	59	55-108	
Chrysene	ug/kg	3330	2050	62	57-108	
Dibenz(a,h)anthracene	ug/kg	3330	2010	60	53-111	
Fluoranthene	ug/kg	3330	2040	61	59-108	
Fluorene	ug/kg	3330	2030	61	57-107	
Indeno(1,2,3-cd)pyrene	ug/kg	3330	2030	61	54-110	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

LABORATORY CONTROL SAMPLE: 556378

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
N-Nitroso-di-n-propylamine	ug/kg	3330	1750	53	46-96	
Naphthalene	ug/kg	3330	1800	54	44-100	
Pentachlorophenol	ug/kg	3330	1460J	44	10-106	
Phenanthrene	ug/kg	3330	2020	61	53-106	
Phenol	ug/kg	3330	1970	59	47-100	
Pyrene	ug/kg	3330	2010	60	60-112	
2,4,6-Tribromophenol (S)	%			60	24-114	
2-Fluorobiphenyl (S)	%			60	36-94	
2-Fluorophenol (S)	%			60	29-97	
Nitrobenzene-d5 (S)	%			55	26-98	
Phenol-d6 (S)	%			60	33-98	
Terphenyl-d14 (S)	%			64	32-112	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 556379 556380

Parameter	Units	5047272004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4-Dinitrotoluene	ug/kg	ND	3490	3490	1830	1860	52	53	15-108	1	20	
2-Chlorophenol	ug/kg	ND	3490	3490	2060	2060	59	59	31-94	.04	20	
2-Methylnaphthalene	ug/kg	ND	3490	3490	1990	1970	57	56	33-93	.8	20	
4-Chloro-3-methylphenol	ug/kg	ND	3490	3490	1960	1990	56	57	35-102	2	20	
4-Nitrophenol	ug/kg	ND	3490	3490	2050	2040	59	58	10-125	.3	20	
Acenaphthene	ug/kg	ND	3490	3490	2000	2030	57	58	36-98	1	20	
Acenaphthylene	ug/kg	ND	3490	3490	2030	2060	58	59	37-106	1	20	
Anthracene	ug/kg	ND	3490	3490	2040	1990	58	57	30-107	2	20	
Benzo(a)anthracene	ug/kg	ND	3490	3490	2050	2070	59	59	30-100	.9	20	
Benzo(a)pyrene	ug/kg	ND	3490	3490	2060	2010	59	58	24-103	2	20	
Benzo(b)fluoranthene	ug/kg	ND	3490	3490	2090	2060	60	59	26-100	1	20	
Benzo(g,h,i)perylene	ug/kg	ND	3490	3490	2140	2080	61	59	24-100	3	20	
Benzo(k)fluoranthene	ug/kg	ND	3490	3490	1880	1860	54	53	29-100	1	20	
Chrysene	ug/kg	ND	3490	3490	2070	2060	59	59	30-99	.9	20	
Dibenz(a,h)anthracene	ug/kg	ND	3490	3490	2140	2110	61	60	26-100	1	20	
Fluoranthene	ug/kg	ND	3490	3490	2040	1960	58	56	35-101	4	20	
Fluorene	ug/kg	ND	3490	3490	2040	2060	58	59	38-98	1	20	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	3490	3490	2160	2080	62	60	23-99	4	20	
N-Nitroso-di-n-propylamine	ug/kg	ND	3490	3490	1770	1780	50	51	33-96	.7	20	
Naphthalene	ug/kg	ND	3490	3490	1920	1910	55	55	33-92	.6	20	
Pentachlorophenol	ug/kg	ND	3490	3490	2130	2020	61	58	10-107	5	20	
Phenanthrene	ug/kg	ND	3490	3490	2060	2070	59	59	35-101	.5	20	
Phenol	ug/kg	ND	3490	3490	2020	1990	58	57	32-99	1	20	
Pyrene	ug/kg	ND	3490	3490	1990	1950	57	56	37-103	2	20	
2,4,6-Tribromophenol (S)	%						70	67	24-114		20	
2-Fluorobiphenyl (S)	%						60	61	36-94		20	
2-Fluorophenol (S)	%						62	61	29-97		20	
Nitrobenzene-d5 (S)	%						57	57	26-98		20	
Phenol-d6 (S)	%						59	58	33-98		20	
Terphenyl-d14 (S)	%						59	58	32-112		20	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

QC Batch: OEXT/24146
QC Batch Method: EPA 3546
Analysis Method: EPA 8270
Analysis Description: 8270 Solid MSSV Microwave Short Spike
Associated Lab Samples: 5047313004

METHOD BLANK: 557752
Matrix: Solid
Associated Lab Samples: 5047313004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-Trichlorophenol	ug/kg	ND	330	04/10/11 19:30	
2,4,6-Trichlorophenol	ug/kg	ND	330	04/10/11 19:30	
2,4-Dichlorophenol	ug/kg	ND	330	04/10/11 19:30	
2,4-Dimethylphenol	ug/kg	ND	330	04/10/11 19:30	
2,4-Dinitrophenol	ug/kg	ND	1600	04/10/11 19:30	
2,4-Dinitrotoluene	ug/kg	ND	330	04/10/11 19:30	
2,6-Dinitrotoluene	ug/kg	ND	330	04/10/11 19:30	
2-Chloronaphthalene	ug/kg	ND	330	04/10/11 19:30	
2-Chlorophenol	ug/kg	ND	330	04/10/11 19:30	
2-Methylnaphthalene	ug/kg	ND	330	04/10/11 19:30	
2-Methylphenol(o-Cresol)	ug/kg	ND	330	04/10/11 19:30	
2-Nitroaniline	ug/kg	ND	1600	04/10/11 19:30	
2-Nitrophenol	ug/kg	ND	330	04/10/11 19:30	
3&4-Methylphenol(m&p Cresol)	ug/kg	ND	660	04/10/11 19:30	
3,3'-Dichlorobenzidine	ug/kg	ND	660	04/10/11 19:30	
3-Nitroaniline	ug/kg	ND	1600	04/10/11 19:30	
4,6-Dinitro-2-methylphenol	ug/kg	ND	1600	04/10/11 19:30	
4-Bromophenylphenyl ether	ug/kg	ND	330	04/10/11 19:30	
4-Chloro-3-methylphenol	ug/kg	ND	660	04/10/11 19:30	
4-Chloroaniline	ug/kg	ND	660	04/10/11 19:30	
4-Chlorophenylphenyl ether	ug/kg	ND	330	04/10/11 19:30	
4-Nitroaniline	ug/kg	ND	1600	04/10/11 19:30	
4-Nitrophenol	ug/kg	ND	1600	04/10/11 19:30	
Acenaphthene	ug/kg	ND	330	04/10/11 19:30	
Acenaphthylene	ug/kg	ND	330	04/10/11 19:30	
Anthracene	ug/kg	ND	330	04/10/11 19:30	
Benzo(a)anthracene	ug/kg	ND	330	04/10/11 19:30	
Benzo(a)pyrene	ug/kg	ND	330	04/10/11 19:30	
Benzo(b)fluoranthene	ug/kg	ND	330	04/10/11 19:30	
Benzo(g,h,i)perylene	ug/kg	ND	330	04/10/11 19:30	
Benzo(k)fluoranthene	ug/kg	ND	330	04/10/11 19:30	
Benzyl alcohol	ug/kg	ND	660	04/10/11 19:30	
bis(2-Chloroethoxy)methane	ug/kg	ND	330	04/10/11 19:30	
bis(2-Chloroethyl) ether	ug/kg	ND	330	04/10/11 19:30	
bis(2-Ethylhexyl)phthalate	ug/kg	ND	330	04/10/11 19:30	
bis(2chloro1methylethyl) ether	ug/kg	ND	330	04/10/11 19:30	
Butylbenzylphthalate	ug/kg	ND	330	04/10/11 19:30	
Chrysene	ug/kg	ND	330	04/10/11 19:30	
Di-n-butylphthalate	ug/kg	ND	330	04/10/11 19:30	
Di-n-octylphthalate	ug/kg	ND	330	04/10/11 19:30	
Dibenz(a,h)anthracene	ug/kg	ND	330	04/10/11 19:30	
Dibenzofuran	ug/kg	ND	330	04/10/11 19:30	
Diethylphthalate	ug/kg	ND	330	04/10/11 19:30	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

METHOD BLANK: 557752 Matrix: Solid

Associated Lab Samples: 5047313004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dimethylphthalate	ug/kg	ND	330	04/10/11 19:30	
Fluoranthene	ug/kg	ND	330	04/10/11 19:30	
Fluorene	ug/kg	ND	330	04/10/11 19:30	
Hexachloro-1,3-butadiene	ug/kg	ND	330	04/10/11 19:30	
Hexachlorobenzene	ug/kg	ND	330	04/10/11 19:30	
Hexachlorocyclopentadiene	ug/kg	ND	330	04/10/11 19:30	
Hexachloroethane	ug/kg	ND	330	04/10/11 19:30	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	330	04/10/11 19:30	
Isophorone	ug/kg	ND	330	04/10/11 19:30	
N-Nitroso-di-n-propylamine	ug/kg	ND	330	04/10/11 19:30	
N-Nitrosodiphenylamine	ug/kg	ND	330	04/10/11 19:30	
Naphthalene	ug/kg	ND	330	04/10/11 19:30	
Nitrobenzene	ug/kg	ND	330	04/10/11 19:30	
Pentachlorophenol	ug/kg	ND	1600	04/10/11 19:30	
Phenanthrene	ug/kg	ND	330	04/10/11 19:30	
Phenol	ug/kg	ND	330	04/10/11 19:30	
Pyrene	ug/kg	ND	330	04/10/11 19:30	
2,4,6-Tribromophenol (S)	%	63	24-114	04/10/11 19:30	
2-Fluorobiphenyl (S)	%	60	36-94	04/10/11 19:30	
2-Fluorophenol (S)	%	80	29-97	04/10/11 19:30	
Nitrobenzene-d5 (S)	%	67	26-98	04/10/11 19:30	
Phenol-d6 (S)	%	81	33-98	04/10/11 19:30	
Terphenyl-d14 (S)	%	82	32-112	04/10/11 19:30	

LABORATORY CONTROL SAMPLE: 557753

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	ug/kg	3330	2280	68	49-102	
2-Chlorophenol	ug/kg	3330	2180	65	44-98	
2-Methylnaphthalene	ug/kg	3330	2190	66	49-94	
4-Chloro-3-methylphenol	ug/kg	3330	2510	75	53-103	
4-Nitrophenol	ug/kg	3330	1290J	39	25-110	
Acenaphthene	ug/kg	3330	2080	62	55-103	
Acenaphthylene	ug/kg	3330	2010	60	58-107	
Anthracene	ug/kg	3330	2270	68	57-113	
Benzo(a)anthracene	ug/kg	3330	2220	67	56-110	
Benzo(a)pyrene	ug/kg	3330	2250	67	59-110	
Benzo(b)fluoranthene	ug/kg	3330	1980	59	53-109	
Benzo(g,h,i)perylene	ug/kg	3330	2050	61	55-109	
Benzo(k)fluoranthene	ug/kg	3330	2290	69	55-108	
Chrysene	ug/kg	3330	2230	67	57-108	
Dibenz(a,h)anthracene	ug/kg	3330	2100	63	53-111	
Fluoranthene	ug/kg	3330	2650	79	59-108	
Fluorene	ug/kg	3330	2240	67	57-107	
Indeno(1,2,3-cd)pyrene	ug/kg	3330	2120	64	54-110	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

LABORATORY CONTROL SAMPLE: 557753

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
N-Nitroso-di-n-propylamine	ug/kg	3330	2050	62	46-96	
Naphthalene	ug/kg	3330	1970	59	44-100	
Pentachlorophenol	ug/kg	3330	1460J	44	10-106	
Phenanthrene	ug/kg	3330	2210	66	53-106	
Phenol	ug/kg	3330	2360	71	47-100	
Pyrene	ug/kg	3330	2670	80	60-112	
2,4,6-Tribromophenol (S)	%			64	24-114	
2-Fluorobiphenyl (S)	%			57	36-94	
2-Fluorophenol (S)	%			65	29-97	
Nitrobenzene-d5 (S)	%			61	26-98	
Phenol-d6 (S)	%			70	33-98	
Terphenyl-d14 (S)	%			84	32-112	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 557754 557755

Parameter	Units	5047425001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4-Dinitrotoluene	ug/kg	ND	4300	4300	2600	2770	60	64	15-108	6	20	
2-Chlorophenol	ug/kg	ND	4300	4300	3030	3330	70	77	31-94	10	20	
2-Methylnaphthalene	ug/kg	ND	4300	4300	2820	3050	65	71	33-93	8	20	
4-Chloro-3-methylphenol	ug/kg	ND	4300	4300	3070	3330	71	77	35-102	8	20	
4-Nitrophenol	ug/kg	ND	4300	4300	1730J	1760J	40	41	10-125		20	
Acenaphthene	ug/kg	ND	4300	4300	2670	2900	62	67	36-98	8	20	
Acenaphthylene	ug/kg	ND	4300	4300	2620	2850	61	66	37-106	9	20	
Anthracene	ug/kg	ND	4300	4300	2570	2870	60	67	30-107	11	20	
Benzo(a)anthracene	ug/kg	ND	4300	4300	2390	2620	55	61	30-100	9	20	
Benzo(a)pyrene	ug/kg	ND	4300	4300	2370	2690	55	62	24-103	13	20	
Benzo(b)fluoranthene	ug/kg	ND	4300	4300	2290	2490	53	58	26-100	8	20	
Benzo(g,h,i)perylene	ug/kg	ND	4300	4300	1910	2400	44	56	24-100	22	20	R1
Benzo(k)fluoranthene	ug/kg	ND	4300	4300	2490	2860	58	66	29-100	14	20	
Chrysene	ug/kg	ND	4300	4300	2350	2610	55	60	30-99	10	20	
Dibenz(a,h)anthracene	ug/kg	ND	4300	4300	1960	2420	46	56	26-100	21	20	R1
Fluoranthene	ug/kg	ND	4300	4300	2910	3110	66	71	35-101	7	20	
Fluorene	ug/kg	ND	4300	4300	2770	2990	64	69	38-98	8	20	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	4300	4300	1990	2460	46	57	23-99	21	20	R1
N-Nitroso-di-n-propylamine	ug/kg	ND	4300	4300	2760	2920	64	68	33-96	6	20	
Naphthalene	ug/kg	ND	4300	4300	2710	3030	63	70	33-92	11	20	
Pentachlorophenol	ug/kg	ND	4300	4300	2120	2150	49	50	10-107	2	20	
Phenanthrene	ug/kg	ND	4300	4300	2560	2830	59	66	35-101	10	20	
Phenol	ug/kg	ND	4300	4300	3220	3430	75	80	32-99	6	20	
Pyrene	ug/kg	ND	4300	4300	2920	3150	67	72	37-103	7	20	
2,4,6-Tribromophenol (S)	%						60	66	24-114		20	
2-Fluorobiphenyl (S)	%						59	64	36-94		20	
2-Fluorophenol (S)	%						73	78	29-97		20	
Nitrobenzene-d5 (S)	%						63	71	26-98		20	
Phenol-d6 (S)	%						76	81	33-98		20	
Terphenyl-d14 (S)	%						67	72	32-112		20	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

QC Batch: OEXT/24094
QC Batch Method: EPA 3510
Analysis Method: EPA 8270 by SIM
Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 5047313008, 5047313009

METHOD BLANK: 556614
Matrix: Water
Associated Lab Samples: 5047313008, 5047313009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Methylnaphthalene	ug/L	ND	1.0	04/05/11 05:33	
Acenaphthene	ug/L	ND	1.0	04/05/11 05:33	
Acenaphthylene	ug/L	ND	1.0	04/05/11 05:33	
Anthracene	ug/L	ND	0.10	04/05/11 05:33	
Benzo(a)anthracene	ug/L	ND	0.10	04/05/11 05:33	
Benzo(a)pyrene	ug/L	ND	0.10	04/05/11 05:33	
Benzo(b)fluoranthene	ug/L	ND	0.10	04/05/11 05:33	
Benzo(g,h,i)perylene	ug/L	ND	0.10	04/05/11 05:33	
Benzo(k)fluoranthene	ug/L	ND	0.10	04/05/11 05:33	
Chrysene	ug/L	ND	0.50	04/05/11 05:33	
Dibenz(a,h)anthracene	ug/L	ND	0.10	04/05/11 05:33	
Fluoranthene	ug/L	ND	1.0	04/05/11 05:33	
Fluorene	ug/L	ND	1.0	04/05/11 05:33	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	04/05/11 05:33	
Naphthalene	ug/L	ND	1.0	04/05/11 05:33	
Phenanthrene	ug/L	ND	1.0	04/05/11 05:33	
Pyrene	ug/L	ND	1.0	04/05/11 05:33	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

QC Batch: OEXT/24093 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV
Associated Lab Samples: 5047313008, 5047313009

METHOD BLANK: 556612 Matrix: Water
Associated Lab Samples: 5047313008, 5047313009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-Trichlorophenol	ug/L	ND	10.0	04/05/11 17:25	
2,4,6-Trichlorophenol	ug/L	ND	10.0	04/05/11 17:25	
2,4-Dichlorophenol	ug/L	ND	10.0	04/05/11 17:25	
2,4-Dimethylphenol	ug/L	ND	10.0	04/05/11 17:25	
2,4-Dinitrophenol	ug/L	ND	50.0	04/05/11 17:25	
2,4-Dinitrotoluene	ug/L	ND	10.0	04/05/11 17:25	
2,6-Dinitrotoluene	ug/L	ND	10.0	04/05/11 17:25	
2-Chloronaphthalene	ug/L	ND	10.0	04/05/11 17:25	
2-Chlorophenol	ug/L	ND	10.0	04/05/11 17:25	
2-Methylnaphthalene	ug/L	ND	10.0	04/05/11 17:25	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/05/11 17:25	
2-Nitroaniline	ug/L	ND	50.0	04/05/11 17:25	
2-Nitrophenol	ug/L	ND	10.0	04/05/11 17:25	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/05/11 17:25	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	04/05/11 17:25	
3-Nitroaniline	ug/L	ND	50.0	04/05/11 17:25	
4,6-Dinitro-2-methylphenol	ug/L	ND	50.0	04/05/11 17:25	
4-Bromophenylphenyl ether	ug/L	ND	10.0	04/05/11 17:25	
4-Chloro-3-methylphenol	ug/L	ND	20.0	04/05/11 17:25	
4-Chloroaniline	ug/L	ND	20.0	04/05/11 17:25	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	04/05/11 17:25	
4-Nitroaniline	ug/L	ND	50.0	04/05/11 17:25	
4-Nitrophenol	ug/L	ND	50.0	04/05/11 17:25	
Acenaphthene	ug/L	ND	10.0	04/05/11 17:25	
Acenaphthylene	ug/L	ND	10.0	04/05/11 17:25	
Anthracene	ug/L	ND	10.0	04/05/11 17:25	
Benzo(a)anthracene	ug/L	ND	10.0	04/05/11 17:25	
Benzo(a)pyrene	ug/L	ND	10.0	04/05/11 17:25	
Benzo(b)fluoranthene	ug/L	ND	10.0	04/05/11 17:25	
Benzo(g,h,i)perylene	ug/L	ND	10.0	04/05/11 17:25	
Benzo(k)fluoranthene	ug/L	ND	10.0	04/05/11 17:25	
Benzyl alcohol	ug/L	ND	20.0	04/05/11 17:25	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	04/05/11 17:25	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	04/05/11 17:25	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	04/05/11 17:25	
bis(2chloro1methylethyl) ether	ug/L	ND	5.0	04/05/11 17:25	
Butylbenzylphthalate	ug/L	ND	10.0	04/05/11 17:25	
Chrysene	ug/L	ND	10.0	04/05/11 17:25	
Di-n-butylphthalate	ug/L	ND	10.0	04/05/11 17:25	
Di-n-octylphthalate	ug/L	ND	10.0	04/05/11 17:25	
Dibenz(a,h)anthracene	ug/L	ND	10.0	04/05/11 17:25	
Dibenzofuran	ug/L	ND	10.0	04/05/11 17:25	
Diethylphthalate	ug/L	ND	10.0	04/05/11 17:25	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

METHOD BLANK: 556612 Matrix: Water

Associated Lab Samples: 5047313008, 5047313009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dimethylphthalate	ug/L	ND	10.0	04/05/11 17:25	
Fluoranthene	ug/L	ND	10.0	04/05/11 17:25	
Fluorene	ug/L	ND	10.0	04/05/11 17:25	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/05/11 17:25	
Hexachlorobenzene	ug/L	ND	10.0	04/05/11 17:25	
Hexachlorocyclopentadiene	ug/L	ND	20.0	04/05/11 17:25	
Hexachloroethane	ug/L	ND	10.0	04/05/11 17:25	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	04/05/11 17:25	
Isophorone	ug/L	ND	10.0	04/05/11 17:25	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	04/05/11 17:25	
N-Nitrosodiphenylamine	ug/L	ND	10.0	04/05/11 17:25	
Naphthalene	ug/L	ND	5.0	04/05/11 17:25	
Nitrobenzene	ug/L	ND	10.0	04/05/11 17:25	
Pentachlorophenol	ug/L	ND	50.0	04/05/11 17:25	
Phenanthrene	ug/L	ND	10.0	04/05/11 17:25	
Phenol	ug/L	ND	10.0	04/05/11 17:25	
Pyrene	ug/L	ND	10.0	04/05/11 17:25	
2,4,6-Tribromophenol (S)	%	87	32-124	04/05/11 17:25	
2-Fluorobiphenyl (S)	%	66	34-106	04/05/11 17:25	
2-Fluorophenol (S)	%	31	10-74	04/05/11 17:25	
Nitrobenzene-d5 (S)	%	63	33-108	04/05/11 17:25	
Phenol-d6 (S)	%	19	10-56	04/05/11 17:25	
Terphenyl-d14 (S)	%	96	31-122	04/05/11 17:25	

LABORATORY CONTROL SAMPLE: 556613

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-Dinitrotoluene	ug/L	100	89.6	90	38-119	
2-Chlorophenol	ug/L	100	68.1	68	37-106	
2-Methylnaphthalene	ug/L	100	56.7	57	40-106	
4-Chloro-3-methylphenol	ug/L	100	91.4	91	43-115	
4-Nitrophenol	ug/L	100	38.5J	38	10-57	
Acenaphthene	ug/L	100	81.7	82	48-114	
Acenaphthylene	ug/L	100	83.3	83	47-124	
Anthracene	ug/L	100	84.8	85	52-122	
Benzo(a)anthracene	ug/L	100	91.5	92	51-122	
Benzo(a)pyrene	ug/L	100	87.6	88	52-122	
Benzo(b)fluoranthene	ug/L	100	81.1	81	48-120	
Benzo(g,h,i)perylene	ug/L	100	80.1	80	49-119	
Benzo(k)fluoranthene	ug/L	100	91.4	91	49-120	
Chrysene	ug/L	100	89.2	89	51-121	
Dibenz(a,h)anthracene	ug/L	100	85.2	85	50-118	
Fluoranthene	ug/L	100	93.4	93	50-122	
Fluorene	ug/L	100	87.4	87	49-118	
Indeno(1,2,3-cd)pyrene	ug/L	100	84.8	85	50-119	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

LABORATORY CONTROL SAMPLE: 556613

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
N-Nitroso-di-n-propylamine	ug/L	100	79.0	79	43-112	
Naphthalene	ug/L	100	72.1	72	41-107	
Pentachlorophenol	ug/L	100	88.5	89	14-131	
Phenanthrene	ug/L	100	83.8	84	51-116	
Phenol	ug/L	100	25.5	25	14-50	
Pyrene	ug/L	100	90.3	90	52-126	
2,4,6-Tribromophenol (S)	%			101	32-124	
2-Fluorobiphenyl (S)	%			76	34-106	
2-Fluorophenol (S)	%			39	10-74	
Nitrobenzene-d5 (S)	%			76	33-108	
Phenol-d6 (S)	%			27	10-56	
Terphenyl-d14 (S)	%			99	31-122	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

QC Batch: MSV/31539 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5030 Low
Associated Lab Samples: 5047313001, 5047313002, 5047313003, 5047313004, 5047313005, 5047313006, 5047313007

METHOD BLANK: 559645 Matrix: Solid
Associated Lab Samples: 5047313001, 5047313002, 5047313003, 5047313004, 5047313005, 5047313006, 5047313007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	04/11/11 08:46	
1,1,1-Trichloroethane	ug/kg	ND	5.0	04/11/11 08:46	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	04/11/11 08:46	
1,1,2-Trichloroethane	ug/kg	ND	5.0	04/11/11 08:46	
1,1-Dichloroethane	ug/kg	ND	5.0	04/11/11 08:46	
1,1-Dichloroethene	ug/kg	ND	5.0	04/11/11 08:46	
1,1-Dichloropropene	ug/kg	ND	5.0	04/11/11 08:46	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	04/11/11 08:46	
1,2,3-Trichloropropane	ug/kg	ND	5.0	04/11/11 08:46	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	04/11/11 08:46	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	04/11/11 08:46	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	04/11/11 08:46	
1,2-Dichlorobenzene	ug/kg	ND	5.0	04/11/11 08:46	
1,2-Dichloroethane	ug/kg	ND	5.0	04/11/11 08:46	
1,2-Dichloropropane	ug/kg	ND	5.0	04/11/11 08:46	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	04/11/11 08:46	
1,3-Dichlorobenzene	ug/kg	ND	5.0	04/11/11 08:46	
1,3-Dichloropropane	ug/kg	ND	5.0	04/11/11 08:46	
1,4-Dichlorobenzene	ug/kg	ND	5.0	04/11/11 08:46	
2,2-Dichloropropane	ug/kg	ND	5.0	04/11/11 08:46	
2-Butanone (MEK)	ug/kg	ND	25.0	04/11/11 08:46	
2-Chlorotoluene	ug/kg	ND	5.0	04/11/11 08:46	
2-Hexanone	ug/kg	ND	100	04/11/11 08:46	
4-Chlorotoluene	ug/kg	ND	5.0	04/11/11 08:46	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	04/11/11 08:46	
Acetone	ug/kg	ND	100	04/11/11 08:46	
Acrolein	ug/kg	ND	100	04/11/11 08:46	
Acrylonitrile	ug/kg	ND	100	04/11/11 08:46	
Benzene	ug/kg	ND	5.0	04/11/11 08:46	
Bromobenzene	ug/kg	ND	5.0	04/11/11 08:46	
Bromochloromethane	ug/kg	ND	5.0	04/11/11 08:46	
Bromodichloromethane	ug/kg	ND	5.0	04/11/11 08:46	
Bromoform	ug/kg	ND	5.0	04/11/11 08:46	
Bromomethane	ug/kg	ND	5.0	04/11/11 08:46	
Carbon disulfide	ug/kg	ND	10.0	04/11/11 08:46	
Carbon tetrachloride	ug/kg	ND	5.0	04/11/11 08:46	
Chlorobenzene	ug/kg	ND	5.0	04/11/11 08:46	
Chloroethane	ug/kg	ND	5.0	04/11/11 08:46	
Chloroform	ug/kg	ND	5.0	04/11/11 08:46	
Chloromethane	ug/kg	ND	5.0	04/11/11 08:46	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	04/11/11 08:46	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	04/11/11 08:46	
Dibromochloromethane	ug/kg	ND	5.0	04/11/11 08:46	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

METHOD BLANK: 559645 Matrix: Solid

Associated Lab Samples: 5047313001, 5047313002, 5047313003, 5047313004, 5047313005, 5047313006, 5047313007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	04/11/11 08:46	
Dichlorodifluoromethane	ug/kg	ND	5.0	04/11/11 08:46	
Ethyl methacrylate	ug/kg	ND	100	04/11/11 08:46	
Ethylbenzene	ug/kg	ND	5.0	04/11/11 08:46	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	04/11/11 08:46	
Iodomethane	ug/kg	ND	100	04/11/11 08:46	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	04/11/11 08:46	
Methyl-tert-butyl ether	ug/kg	ND	5.0	04/11/11 08:46	
Methylene chloride	ug/kg	ND	20.0	04/11/11 08:46	
n-Butylbenzene	ug/kg	ND	5.0	04/11/11 08:46	
n-Hexane	ug/kg	ND	5.0	04/11/11 08:46	
n-Propylbenzene	ug/kg	ND	5.0	04/11/11 08:46	
Naphthalene	ug/kg	ND	5.0	04/11/11 08:46	
p-Isopropyltoluene	ug/kg	ND	5.0	04/11/11 08:46	
sec-Butylbenzene	ug/kg	ND	5.0	04/11/11 08:46	
Styrene	ug/kg	ND	5.0	04/11/11 08:46	
tert-Butylbenzene	ug/kg	ND	5.0	04/11/11 08:46	
Tetrachloroethene	ug/kg	ND	5.0	04/11/11 08:46	
Toluene	ug/kg	ND	5.0	04/11/11 08:46	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	04/11/11 08:46	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	04/11/11 08:46	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	04/11/11 08:46	
Trichloroethene	ug/kg	ND	5.0	04/11/11 08:46	
Trichlorofluoromethane	ug/kg	ND	5.0	04/11/11 08:46	
Vinyl acetate	ug/kg	ND	100	04/11/11 08:46	
Vinyl chloride	ug/kg	ND	5.0	04/11/11 08:46	
Xylene (Total)	ug/kg	ND	10.0	04/11/11 08:46	
4-Bromofluorobenzene (S)	%	94	67-134	04/11/11 08:46	
Dibromofluoromethane (S)	%	101	71-125	04/11/11 08:46	
Toluene-d8 (S)	%	99	76-124	04/11/11 08:46	

LABORATORY CONTROL SAMPLE: 559646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	42.8	86	70-118	
1,1,1-Trichloroethane	ug/kg	50	50.8	102	73-123	
1,1,2,2-Tetrachloroethane	ug/kg	50	43.8	88	71-127	
1,1,2-Trichloroethane	ug/kg	50	52.3	105	78-124	
1,1-Dichloroethane	ug/kg	50	54.0	108	73-122	
1,1-Dichloroethene	ug/kg	50	58.3	117	80-137	
1,1-Dichloropropene	ug/kg	50	51.8	104	77-121	
1,2,3-Trichlorobenzene	ug/kg	50	47.5	95	67-125	
1,2,3-Trichloropropane	ug/kg	100	96.7	97	47-117	
1,2,4-Trichlorobenzene	ug/kg	50	49.6	99	64-121	
1,2,4-Trimethylbenzene	ug/kg	50	45.8	92	70-122	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

LABORATORY CONTROL SAMPLE: 559646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	53.3	107	79-119	
1,2-Dichlorobenzene	ug/kg	50	46.0	92	76-120	
1,2-Dichloroethane	ug/kg	50	52.8	106	72-125	
1,2-Dichloropropane	ug/kg	50	51.5	103	76-121	
1,3,5-Trimethylbenzene	ug/kg	50	42.2	84	70-122	
1,3-Dichlorobenzene	ug/kg	50	50.7	101	78-120	
1,3-Dichloropropane	ug/kg	50	51.4	103	78-121	
1,4-Dichlorobenzene	ug/kg	50	51.0	102	77-117	
2,2-Dichloropropane	ug/kg	50	54.7	109	55-128	
2-Butanone (MEK)	ug/kg	250	316	126	39-186	
2-Chlorotoluene	ug/kg	50	50.5	101	76-122	
2-Hexanone	ug/kg	250	281	113	53-168	
4-Chlorotoluene	ug/kg	50	49.0	98	73-121	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	247	99	67-124	
Acetone	ug/kg	250	633	253	10-200	L0
Acrolein	ug/kg	1000	1070	107	10-200	
Acrylonitrile	ug/kg	1000	1070	107	70-126	
Benzene	ug/kg	50	54.2	108	77-123	
Bromobenzene	ug/kg	50	45.5	91	73-120	
Bromochloromethane	ug/kg	50	61.1	122	70-131	
Bromodichloromethane	ug/kg	50	51.4	103	74-120	
Bromoform	ug/kg	50	50.5	101	65-116	
Bromomethane	ug/kg	50	45.9	92	18-190	
Carbon disulfide	ug/kg	100	114	114	68-127	
Carbon tetrachloride	ug/kg	50	52.0	104	65-127	
Chlorobenzene	ug/kg	50	50.7	101	80-116	
Chloroethane	ug/kg	50	56.3	113	55-159	
Chloroform	ug/kg	50	50.3	101	74-118	
Chloromethane	ug/kg	50	50.7	101	56-142	
cis-1,2-Dichloroethene	ug/kg	50	56.2	112	82-125	
cis-1,3-Dichloropropene	ug/kg	50	53.4	107	67-118	
Dibromochloromethane	ug/kg	50	50.5	101	70-123	
Dibromomethane	ug/kg	50	52.6	105	76-121	
Dichlorodifluoromethane	ug/kg	50	36.6	73	25-200	
Ethyl methacrylate	ug/kg	200	193	97	70-122	
Ethylbenzene	ug/kg	50	50.2	100	77-120	
Hexachloro-1,3-butadiene	ug/kg	50	34.0	68	64-127	
Iodomethane	ug/kg	100	96.4J	96	26-171	
Isopropylbenzene (Cumene)	ug/kg	50	42.7	85	75-118	
Methyl-tert-butyl ether	ug/kg	100	94.8	95	69-125	
Methylene chloride	ug/kg	50	51.5	103	66-128	
n-Butylbenzene	ug/kg	50	46.5	93	68-126	
n-Hexane	ug/kg	50	53.2	106	71-148	
n-Propylbenzene	ug/kg	50	49.7	99	74-124	
Naphthalene	ug/kg	50	46.6	93	68-129	
p-Isopropyltoluene	ug/kg	50	41.1	82	71-123	
sec-Butylbenzene	ug/kg	50	41.5	83	70-126	
Styrene	ug/kg	50	49.9	100	76-120	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

LABORATORY CONTROL SAMPLE: 559646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	29.4	59	46-117	
Tetrachloroethene	ug/kg	50	46.6	93	69-112	
Toluene	ug/kg	50	53.4	107	74-121	
trans-1,2-Dichloroethene	ug/kg	50	56.4	113	79-134	
trans-1,3-Dichloropropene	ug/kg	50	50.0	100	59-113	
trans-1,4-Dichloro-2-butene	ug/kg	200	197	99	51-118	
Trichloroethene	ug/kg	50	51.2	102	79-119	
Trichlorofluoromethane	ug/kg	50	59.4	119	57-151	
Vinyl acetate	ug/kg	200	208	104	29-122	
Vinyl chloride	ug/kg	50	48.4	97	69-138	
Xylene (Total)	ug/kg	150	148	99	75-122	
4-Bromofluorobenzene (S)	%			96	67-134	
Dibromofluoromethane (S)	%			102	71-125	
Toluene-d8 (S)	%			101	76-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 559647 559648

Parameter	Units	5047313003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	63.7	63.7	37.3	43.2	59	68	10-111	15	20	
1,1,1-Trichloroethane	ug/kg	ND	63.7	63.7	55.1	57.1	87	90	36-128	3	20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	63.7	63.7	32.0	42.1	50	66	10-130	27	20	
1,1,2-Trichloroethane	ug/kg	ND	63.7	63.7	38.8	48.9	61	77	10-126	23	20	
1,1-Dichloroethane	ug/kg	ND	63.7	63.7	54.0	58.4	85	92	39-126	8	20	
1,1-Dichloroethene	ug/kg	ND	63.7	63.7	67.8	68.6	107	108	42-147	1	20	
1,1-Dichloropropene	ug/kg	ND	63.7	63.7	57.1	58.4	90	92	29-129	2	20	
1,2,3-Trichlorobenzene	ug/kg	ND	63.7	63.7	12.2	28.0	19	44	10-91	79	20	
1,2,3-Trichloropropane	ug/kg	ND	127	127	58.9	81.9	46	64	10-99	33	20	
1,2,4-Trichlorobenzene	ug/kg	ND	63.7	63.7	18.8	33.9	29	53	10-88	57	20	
1,2,4-Trimethylbenzene	ug/kg	ND	63.7	63.7	43.4	47.4	68	74	10-109	9	20	
1,2-Dibromoethane (EDB)	ug/kg	ND	63.7	63.7	36.4	49.6	57	78	10-119	31	20	
1,2-Dichlorobenzene	ug/kg	ND	63.7	63.7	31.6	40.7	50	64	10-104	25	20	
1,2-Dichloroethane	ug/kg	ND	63.7	63.7	42.1	51.8	66	81	19-126	21	20	1d
1,2-Dichloropropane	ug/kg	ND	63.7	63.7	46.1	52.7	72	83	24-123	13	20	
1,3,5-Trimethylbenzene	ug/kg	ND	63.7	63.7	41.8	44.9	66	71	10-118	7	20	
1,3-Dichlorobenzene	ug/kg	ND	63.7	63.7	37.7	45.6	59	72	10-108	19	20	
1,3-Dichloropropane	ug/kg	ND	63.7	63.7	37.9	48.9	60	77	12-121	25	20	
1,4-Dichlorobenzene	ug/kg	ND	63.7	63.7	37.2	45.6	58	72	10-104	20	20	
2,2-Dichloropropane	ug/kg	ND	63.7	63.7	58.8	60.6	92	95	32-124	3	20	
2-Butanone (MEK)	ug/kg	ND	318	318	225	294	71	92	10-183	26	20	
2-Chlorotoluene	ug/kg	ND	63.7	63.7	47.0	50.6	74	79	10-128	7	20	
2-Hexanone	ug/kg	ND	318	318	175	236	55	74	10-158	29	20	
4-Chlorotoluene	ug/kg	ND	63.7	63.7	44.8	50.1	70	79	10-119	11	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	318	318	176	235	55	74	12-130	29	20	
Acetone	ug/kg	ND	318	318	442	573	122	163	10-200	26	20	
Acrolein	ug/kg	ND	1270	1270	762	981	60	77	10-200	25	20	
Acrylonitrile	ug/kg	ND	1270	1270	824	1050	65	83	19-130	24	20	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 559647 559648

Parameter	Units	5047313003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	63.7	63.7	53.9	58.7	85	92	23-138	9	20	
Bromobenzene	ug/kg	ND	63.7	63.7	35.0	43.4	55	68	10-111	21	20	
Bromochloromethane	ug/kg	ND	63.7	63.7	49.3	59.6	77	94	26-126	19	20	
Bromodichloromethane	ug/kg	ND	63.7	63.7	43.7	52.3	69	82	10-120	18	20	
Bromoform	ug/kg	ND	63.7	63.7	33.1	44.7	52	70	10-106	30	20	
Bromomethane	ug/kg	ND	63.7	63.7	47.8	52.2	75	82	10-190	9	20	
Carbon disulfide	ug/kg	ND	127	127	124	127	98	99	31-128	2	20	
Carbon tetrachloride	ug/kg	ND	63.7	63.7	58.4	59.3	92	93	26-126	2	20	
Chlorobenzene	ug/kg	ND	63.7	63.7	43.0	50.2	67	79	10-120	15	20	
Chloroethane	ug/kg	ND	63.7	63.7	60.6	65.5	95	103	18-186	8	20	
Chloroform	ug/kg	ND	63.7	63.7	47.9	53.5	75	84	29-126	11	20	
Chloromethane	ug/kg	ND	63.7	63.7	55.5	57.5	87	90	34-131	4	20	
cis-1,2-Dichloroethene	ug/kg	ND	63.7	63.7	54.0	60.2	85	95	28-132	11	20	
cis-1,3-Dichloropropene	ug/kg	ND	63.7	63.7	41.1	51.3	65	81	10-108	22	20	
Dibromochloromethane	ug/kg	ND	63.7	63.7	36.1	47.5	57	75	10-108	27	20	
Dibromomethane	ug/kg	ND	63.7	63.7	40.3	51.4	63	81	13-122	24	20	
Dichlorodifluoromethane	ug/kg	ND	63.7	63.7	44.7	45.5	70	71	10-197	2	20	
Ethyl methacrylate	ug/kg	ND	255	255	87.8J	134	34	53	10-130		20	
Ethylbenzene	ug/kg	ND	63.7	63.7	48.6	52.2	76	82	10-135	7	20	
Hexachloro-1,3-butadiene	ug/kg	ND	63.7	63.7	30.8	32.5	48	51	10-105	5	20	
Iodomethane	ug/kg	ND	127	127	98.3J	108J	77	85	10-163		20	
Isopropylbenzene (Cumene)	ug/kg	ND	63.7	63.7	44.6	45.6	70	72	10-121	2	20	
Methyl-tert-butyl ether	ug/kg	ND	127	127	72.6	91.9	57	72	20-140	23	20	
Methylene chloride	ug/kg	ND	63.7	63.7	48.5	56.1	75	87	28-131	15	20	
n-Butylbenzene	ug/kg	ND	63.7	63.7	44.8	46.0	70	72	10-110	3	20	
n-Hexane	ug/kg	ND	63.7	63.7	57.9	57.9	91	91	21-150	.06	20	
n-Propylbenzene	ug/kg	ND	63.7	63.7	49.8	52.0	78	82	10-123	4	20	
Naphthalene	ug/kg	ND	63.7	63.7	14.3	30.6	22	48	10-106	73	20	
p-Isopropyltoluene	ug/kg	ND	63.7	63.7	42.4	43.2	67	68	10-117	2	20	
sec-Butylbenzene	ug/kg	ND	63.7	63.7	45.5	44.6	71	70	10-123	2	20	
Styrene	ug/kg	ND	63.7	63.7	40.2	47.2	63	74	10-119	16	20	
tert-Butylbenzene	ug/kg	ND	63.7	63.7	33.2	33.2	52	52	10-105	.08	20	
Tetrachloroethene	ug/kg	ND	63.7	63.7	50.4	52.9	79	83	10-122	5	20	
Toluene	ug/kg	ND	63.7	63.7	51.2	56.3	80	88	10-131	9	20	
trans-1,2-Dichloroethene	ug/kg	ND	63.7	63.7	59.9	63.8	94	100	32-136	6	20	
trans-1,3-Dichloropropene	ug/kg	ND	63.7	63.7	35.2	46.0	55	72	10-101	27	20	
trans-1,4-Dichloro-2-butene	ug/kg	ND	255	255	117J	165	46	65	10-104		20	
Trichloroethene	ug/kg	ND	63.7	63.7	53.2	56.3	84	88	15-133	6	20	
Trichlorofluoromethane	ug/kg	ND	63.7	63.7	70.9	71.6	111	112	37-152	.9	20	
Vinyl acetate	ug/kg	ND	255	255	ND	ND	.6	1	10-103		20	M0
Vinyl chloride	ug/kg	ND	63.7	63.7	58.0	59.0	91	93	41-147	2	20	
Xylene (Total)	ug/kg	ND	191	191	139	153	73	80	10-131	10	20	
4-Bromofluorobenzene (S)	%						93	95	67-134		20	
Dibromofluoromethane (S)	%						102	102	71-125		20	
Toluene-d8 (S)	%						98	100	76-124		20	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

QC Batch: MSV/31538 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5047313008, 5047313009, 5047313010, 5047313011

METHOD BLANK: 559640 Matrix: Water
Associated Lab Samples: 5047313008, 5047313009, 5047313010, 5047313011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	04/11/11 08:46	
1,1,1-Trichloroethane	ug/L	ND	5.0	04/11/11 08:46	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	04/11/11 08:46	
1,1,2-Trichloroethane	ug/L	ND	5.0	04/11/11 08:46	
1,1-Dichloroethane	ug/L	ND	5.0	04/11/11 08:46	
1,1-Dichloroethene	ug/L	ND	5.0	04/11/11 08:46	
1,1-Dichloropropene	ug/L	ND	5.0	04/11/11 08:46	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	04/11/11 08:46	
1,2,3-Trichloropropane	ug/L	ND	5.0	04/11/11 08:46	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/11/11 08:46	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	04/11/11 08:46	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	04/11/11 08:46	
1,2-Dichlorobenzene	ug/L	ND	5.0	04/11/11 08:46	
1,2-Dichloroethane	ug/L	ND	5.0	04/11/11 08:46	
1,2-Dichloropropane	ug/L	ND	5.0	04/11/11 08:46	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	04/11/11 08:46	
1,3-Dichlorobenzene	ug/L	ND	5.0	04/11/11 08:46	
1,3-Dichloropropane	ug/L	ND	5.0	04/11/11 08:46	
1,4-Dichlorobenzene	ug/L	ND	5.0	04/11/11 08:46	
2,2-Dichloropropane	ug/L	ND	5.0	04/11/11 08:46	
2-Butanone (MEK)	ug/L	ND	25.0	04/11/11 08:46	
2-Chlorotoluene	ug/L	ND	5.0	04/11/11 08:46	
2-Hexanone	ug/L	ND	25.0	04/11/11 08:46	
4-Chlorotoluene	ug/L	ND	5.0	04/11/11 08:46	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	04/11/11 08:46	
Acetone	ug/L	ND	100	04/11/11 08:46	
Acrolein	ug/L	ND	50.0	04/11/11 08:46	
Acrylonitrile	ug/L	ND	100	04/11/11 08:46	
Benzene	ug/L	ND	5.0	04/11/11 08:46	
Bromobenzene	ug/L	ND	5.0	04/11/11 08:46	
Bromochloromethane	ug/L	ND	5.0	04/11/11 08:46	
Bromodichloromethane	ug/L	ND	5.0	04/11/11 08:46	
Bromoform	ug/L	ND	5.0	04/11/11 08:46	
Bromomethane	ug/L	ND	5.0	04/11/11 08:46	
Carbon disulfide	ug/L	ND	10.0	04/11/11 08:46	
Carbon tetrachloride	ug/L	ND	5.0	04/11/11 08:46	
Chlorobenzene	ug/L	ND	5.0	04/11/11 08:46	
Chloroethane	ug/L	ND	5.0	04/11/11 08:46	
Chloroform	ug/L	ND	5.0	04/11/11 08:46	
Chloromethane	ug/L	ND	5.0	04/11/11 08:46	
cis-1,2-Dichloroethene	ug/L	ND	5.0	04/11/11 08:46	
cis-1,3-Dichloropropene	ug/L	ND	5.0	04/11/11 08:46	
Dibromochloromethane	ug/L	ND	5.0	04/11/11 08:46	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

METHOD BLANK: 559640 Matrix: Water

Associated Lab Samples: 5047313008, 5047313009, 5047313010, 5047313011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	04/11/11 08:46	
Dichlorodifluoromethane	ug/L	ND	5.0	04/11/11 08:46	
Ethyl methacrylate	ug/L	ND	100	04/11/11 08:46	
Ethylbenzene	ug/L	ND	5.0	04/11/11 08:46	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/11/11 08:46	
Iodomethane	ug/L	ND	10.0	04/11/11 08:46	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	04/11/11 08:46	
Methyl-tert-butyl ether	ug/L	ND	4.0	04/11/11 08:46	
Methylene chloride	ug/L	ND	5.0	04/11/11 08:46	
n-Butylbenzene	ug/L	ND	5.0	04/11/11 08:46	
n-Hexane	ug/L	ND	5.0	04/11/11 08:46	
n-Propylbenzene	ug/L	ND	5.0	04/11/11 08:46	
Naphthalene	ug/L	ND	5.0	04/11/11 08:46	
p-Isopropyltoluene	ug/L	ND	5.0	04/11/11 08:46	
sec-Butylbenzene	ug/L	ND	5.0	04/11/11 08:46	
Styrene	ug/L	ND	5.0	04/11/11 08:46	
tert-Butylbenzene	ug/L	ND	5.0	04/11/11 08:46	
Tetrachloroethene	ug/L	ND	5.0	04/11/11 08:46	
Toluene	ug/L	ND	5.0	04/11/11 08:46	
trans-1,2-Dichloroethene	ug/L	ND	5.0	04/11/11 08:46	
trans-1,3-Dichloropropene	ug/L	ND	5.0	04/11/11 08:46	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	04/11/11 08:46	
Trichloroethene	ug/L	ND	5.0	04/11/11 08:46	
Trichlorofluoromethane	ug/L	ND	5.0	04/11/11 08:46	
Vinyl acetate	ug/L	ND	50.0	04/11/11 08:46	
Vinyl chloride	ug/L	ND	2.0	04/11/11 08:46	
Xylene (Total)	ug/L	ND	10.0	04/11/11 08:46	
4-Bromofluorobenzene (S)	%	94	72-125	04/11/11 08:46	
Dibromofluoromethane (S)	%	101	83-123	04/11/11 08:46	
Toluene-d8 (S)	%	99	81-114	04/11/11 08:46	

LABORATORY CONTROL SAMPLE: 559641

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	42.8	86	69-122	
1,1,1-Trichloroethane	ug/L	50	50.8	102	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	43.8	88	68-134	
1,1,2-Trichloroethane	ug/L	50	52.3	105	77-129	
1,1-Dichloroethane	ug/L	50	54.0	108	70-127	
1,1-Dichloroethene	ug/L	50	58.3	117	75-145	
1,1-Dichloropropene	ug/L	50	51.8	104	75-126	
1,2,3-Trichlorobenzene	ug/L	50	47.5	95	63-130	
1,2,3-Trichloropropane	ug/L	100	96.7	97	45-121	
1,2,4-Trichlorobenzene	ug/L	50	49.6	99	64-122	
1,2,4-Trimethylbenzene	ug/L	50	45.8	92	68-129	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

LABORATORY CONTROL SAMPLE: 559641

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	53.3	107	77-123	
1,2-Dichlorobenzene	ug/L	50	46.0	92	74-123	
1,2-Dichloroethane	ug/L	50	52.8	106	71-127	
1,2-Dichloropropane	ug/L	50	51.5	103	75-126	
1,3,5-Trimethylbenzene	ug/L	50	42.2	84	69-129	
1,3-Dichlorobenzene	ug/L	50	50.7	101	76-123	
1,3-Dichloropropane	ug/L	50	51.4	103	77-126	
1,4-Dichlorobenzene	ug/L	50	51.0	102	77-121	
2,2-Dichloropropane	ug/L	50	54.7	109	45-138	
2-Butanone (MEK)	ug/L	250	316	126	42-177	
2-Chlorotoluene	ug/L	50	50.5	101	74-129	
2-Hexanone	ug/L	250	281	113	57-162	
4-Chlorotoluene	ug/L	50	49.0	98	70-125	
4-Methyl-2-pentanone (MIBK)	ug/L	250	247	99	64-135	
Acetone	ug/L	250	633	253	10-200	L3
Acrolein	ug/L	1000	1070	107	10-200	
Acrylonitrile	ug/L	1000	1070	107	59-144	
Benzene	ug/L	50	54.2	108	76-123	
Bromobenzene	ug/L	50	45.5	91	67-130	
Bromochloromethane	ug/L	50	61.1	122	58-153	
Bromodichloromethane	ug/L	50	51.4	103	71-124	
Bromoform	ug/L	50	50.5	101	64-116	
Bromomethane	ug/L	50	45.9	92	23-197	
Carbon disulfide	ug/L	100	114	114	55-146	
Carbon tetrachloride	ug/L	50	52.0	104	65-125	
Chlorobenzene	ug/L	50	50.7	101	78-120	
Chloroethane	ug/L	50	56.3	113	56-163	
Chloroform	ug/L	50	50.3	101	73-122	
Chloromethane	ug/L	50	50.7	101	46-146	
cis-1,2-Dichloroethene	ug/L	50	56.2	112	79-129	
cis-1,3-Dichloropropene	ug/L	50	53.4	107	66-123	
Dibromochloromethane	ug/L	50	50.5	101	70-123	
Dibromomethane	ug/L	50	52.6	105	73-123	
Dichlorodifluoromethane	ug/L	50	36.6	73	19-200	
Ethyl methacrylate	ug/L	200	193	97	70-127	
Ethylbenzene	ug/L	50	50.2	100	75-120	
Hexachloro-1,3-butadiene	ug/L	50	34.0	68	64-131	
Iodomethane	ug/L	100	96.4	96	16-181	
Isopropylbenzene (Cumene)	ug/L	50	42.7	85	73-123	
Methyl-tert-butyl ether	ug/L	100	94.8	95	66-128	
Methylene chloride	ug/L	50	51.5	103	61-138	
n-Butylbenzene	ug/L	50	46.5	93	69-130	
n-Hexane	ug/L	50	53.2	106	67-142	
n-Propylbenzene	ug/L	50	49.7	99	71-132	
Naphthalene	ug/L	50	46.6	93	62-130	
p-Isopropyltoluene	ug/L	50	41.1	82	71-126	
sec-Butylbenzene	ug/L	50	41.5	83	69-130	
Styrene	ug/L	50	49.9	100	75-125	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

LABORATORY CONTROL SAMPLE: 559641

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	29.4	59	49-114	
Tetrachloroethene	ug/L	50	46.6	93	57-125	
Toluene	ug/L	50	53.4	107	72-124	
trans-1,2-Dichloroethene	ug/L	50	56.4	113	71-145	
trans-1,3-Dichloropropene	ug/L	50	50.0	100	58-118	
trans-1,4-Dichloro-2-butene	ug/L	200	197	99	50-121	
Trichloroethene	ug/L	50	51.2	102	77-122	
Trichlorofluoromethane	ug/L	50	59.4	119	56-159	
Vinyl acetate	ug/L	200	208	104	27-119	
Vinyl chloride	ug/L	50	48.4	97	61-146	
Xylene (Total)	ug/L	150	148	99	72-126	
4-Bromofluorobenzene (S)	%			96	72-125	
Dibromofluoromethane (S)	%			102	83-123	
Toluene-d8 (S)	%			101	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 559642 559643

Parameter	Units	5047313008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	47.5	45.9	95	92	30-122	3	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	54.3	52.6	109	105	37-136	3	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	48.6	47.1	97	94	47-132	3	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	54.8	54.0	110	108	53-131	2	20	
1,1-Dichloroethane	ug/L	ND	50	50	57.6	55.3	115	111	47-138	4	20	
1,1-Dichloroethene	ug/L	ND	50	50	62.9	62.0	126	124	54-152	1	20	
1,1-Dichloropropene	ug/L	ND	50	50	55.6	53.9	111	108	47-136	3	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	53.0	50.7	106	101	15-132	4	20	
1,2,3-Trichloropropane	ug/L	ND	100	100	102	100	102	100	24-108	2	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	54.4	52.0	109	104	10-130	5	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	49.1	47.8	98	96	10-141	3	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	57.2	55.9	114	112	49-130	2	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	49.6	48.7	99	97	20-137	2	20	
1,2-Dichloroethane	ug/L	ND	50	50	56.4	55.3	113	111	42-139	2	20	
1,2-Dichloropropane	ug/L	ND	50	50	55.3	54.0	111	108	50-131	3	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	45.5	44.0	91	88	10-145	3	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	54.1	53.0	108	106	13-143	2	20	
1,3-Dichloropropane	ug/L	ND	50	50	55.4	54.4	111	109	53-130	2	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	54.0	53.6	108	107	13-140	.9	20	
2,2-Dichloropropane	ug/L	ND	50	50	58.2	56.1	116	112	13-142	4	20	
2-Butanone (MEK)	ug/L	ND	250	250	288	275	115	110	43-142	5	20	
2-Chlorotoluene	ug/L	ND	50	50	53.4	54.1	107	108	15-145	1	20	
2-Hexanone	ug/L	ND	250	250	272	257	109	103	46-139	6	20	
4-Chlorotoluene	ug/L	ND	50	50	52.3	51.2	105	102	12-143	2	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	265	253	106	101	43-140	5	20	
Acetone	ug/L	ND	250	250	363	348	145	139	38-155	4	20	
Acrolein	ug/L	ND	1000	1000	1770	1720	177	172	11-200	2	20	
Acrylonitrile	ug/L	ND	1000	1000	1180	1140	118	114	42-150	4	20	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 559642 559643

Parameter	Units	5047313008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	59.0	56.9	118	114	52-134	4	20	
Bromobenzene	ug/L	ND	50	50	50.0	48.8	100	98	25-140	3	20	
Bromochloromethane	ug/L	ND	50	50	64.1	63.4	128	127	54-144	1	20	
Bromodichloromethane	ug/L	ND	50	50	55.3	54.6	111	109	42-128	1	20	
Bromoform	ug/L	ND	50	50	53.4	51.6	107	103	34-116	3	20	
Bromomethane	ug/L	ND	50	50	52.8	51.4	106	103	10-200	3	20	
Carbon disulfide	ug/L	ND	100	100	121	116	121	116	43-144	4	20	
Carbon tetrachloride	ug/L	ND	50	50	56.4	53.7	113	107	26-136	5	20	
Chlorobenzene	ug/L	ND	50	50	54.4	52.3	109	105	33-136	4	20	
Chloroethane	ug/L	ND	50	50	62.1	58.9	124	118	21-200	5	20	
Chloroform	ug/L	ND	50	50	53.6	52.4	107	105	50-134	2	20	
Chloromethane	ug/L	ND	50	50	54.5	53.1	109	106	32-160	3	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	60.8	59.2	122	118	48-145	3	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	56.1	54.8	112	110	35-116	2	20	
Dibromochloromethane	ug/L	ND	50	50	54.1	53.0	108	106	39-122	2	20	
Dibromomethane	ug/L	ND	50	50	57.6	56.3	115	113	49-134	2	20	
Dichlorodifluoromethane	ug/L	ND	50	50	42.4	40.7	85	81	35-200	4	20	
Ethyl methacrylate	ug/L	ND	200	200	210	203	105	102	54-123	3	20	
Ethylbenzene	ug/L	ND	50	50	53.8	52.3	108	105	29-132	3	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	36.1	35.4	72	71	10-146	2	20	
Iodomethane	ug/L	ND	100	100	103	100	103	100	10-171	2	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	46.0	44.1	92	88	11-146	4	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	102	100	102	100	39-137	1	20	
Methylene chloride	ug/L	ND	50	50	55.1	53.4	110	107	47-141	3	20	
n-Butylbenzene	ug/L	ND	50	50	48.9	47.4	98	95	10-156	3	20	
n-Hexane	ug/L	ND	50	50	56.9	56.4	114	113	51-137	.9	20	
n-Propylbenzene	ug/L	ND	50	50	53.5	51.2	107	102	10-148	4	20	
Naphthalene	ug/L	ND	50	50	52.3	50.0	105	100	40-124	5	20	
p-Isopropyltoluene	ug/L	ND	50	50	43.7	42.8	87	86	10-150	2	20	
sec-Butylbenzene	ug/L	ND	50	50	44.3	43.3	89	87	10-150	2	20	
Styrene	ug/L	ND	50	50	54.0	52.0	108	104	20-143	4	20	
tert-Butylbenzene	ug/L	ND	50	50	32.1	30.6	64	61	10-123	5	20	
Tetrachloroethene	ug/L	ND	50	50	51.2	49.2	102	98	30-124	4	20	
Toluene	ug/L	ND	50	50	58.0	56.6	116	113	42-130	2	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	60.8	59.2	122	118	48-144	3	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	53.6	52.9	107	106	24-114	1	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	217	205	108	102	22-120	6	20	
Trichloroethene	ug/L	ND	50	50	55.2	53.2	110	106	44-130	4	20	
Trichlorofluoromethane	ug/L	ND	50	50	63.2	65.2	126	130	17-200	3	20	
Vinyl acetate	ug/L	ND	200	200	237	232	119	116	10-115	2	20	M0
Vinyl chloride	ug/L	ND	50	50	53.6	51.2	107	102	45-159	4	20	
Xylene (Total)	ug/L	ND	150	150	160	154	106	102	29-131	4	20	
4-Bromofluorobenzene (S)	%						97	95	72-125		20	
Dibromofluoromethane (S)	%						101	102	83-123		20	
Toluene-d8 (S)	%						101	100	81-114		20	

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

QC Batch: PMST/5700 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5047313001, 5047313002, 5047313003, 5047313004, 5047313005, 5047313006, 5047313007

SAMPLE DUPLICATE: 558029

Parameter	Units	5047365001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.7	16.9	29	5	R2

SAMPLE DUPLICATE: 558030

Parameter	Units	5047400005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.9	8.2	9	5	R2

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALIFIERS

Project: Saran Phase II/1-11-0352
Pace Project No.: 5047313

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

1d	Multiple compounds RPD's are outside of the required control limits. Refer to the LCS for system control and data acceptability. slb041211
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
R1	RPD value was outside control limits.
R2	RPD value was outside control limits due to matrix interference

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1458599

Section A Required Client Information:

Company: Patriot
Address: 6330 E 75th 215
Indpls IN 46250
Email To: gfricke@
Phone: 5768058 Fax: 570 7182
Requested Due Date/TAT: Normal

Section B Required Project Information:

Report To: Gary Fricke
Copy To: Mary Scanlan Hogan
Purchase Order No.: 1-11-0352
Project Name: Saran Phase II
Project Number: 1-11-0352

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☒ OTHER RISC

Site Location STATE: IN

Section D Required Client Information

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOCs 8260	SVOCs 8270	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	B-1 @ 5-6ft	SL	G			4/1/11	9:30a		2	X									X	X		-001
2	B-1 GW	WT	G			4/1/11	9:45a		5	X			X						X	X		-008
3	B-2 3-4ft	SL	G			4/1/11	10:30a		2	X									X	X		-002
4	B-3 5-6ft	SL	G			4/1/11	10:50a		2	X									X	X		-003
5	B-4 5-6ft	SL	G			4/1/11	11:45a		2	X									X	X		-004
6	B-5 5-6ft	SL	G			4/1/11	12:20p		2	X									X	X		-005
7	B-3 GW	WT	G			4/1/11	12:40p		5	X			X						X	X		-009
8	B-6 4-5ft	SL	G			4/1/11	1:20p		2	X									X	X		-006
9	Duplicate	SL	G			—	—		1	X									X			-007
10	Duplicate GW	WT	G			—	—		3				X						X			-010
11	Trip Blank	WT	G			—	—		3				X						X			-011
12																						

5047313

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Report to lowest RISC detection limits	MKHogan	4/1/11	3:00p		4/1/11	3:00p	6 pc cooler Y N Y
Absolute Pricing							

ORIGINAL

WI Client Del.

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mary Scanlan Hogan
SIGNATURE of SAMPLER: MKHogan
DATE Signed (MM/DD/YY): 4/1/11

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Patriot

Project # 5049313

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Date/Time 5035A kits placed in freezer _____

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other Foam

Thermometer Used 1 2 3 4 6 A B C D E **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 6.7°C **Ice Visible in Sample Containers:** ☐ yes ☑ no

(Corrected, if applicable)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: (CW) 4/1/11

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☐No ☑N/A	4.
Short Hold Time Analysis (<72hr):	☐Yes ☐No ☑N/A	5.
Rush Turn Around Time Requested:	☐Yes ☐No ☑N/A	6.
Containers Intact:	☑Yes ☐No ☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes ☐No ☐N/A	8.
All containers needing preservation have been pH checked? exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No ☑N/A	9.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	10.
Trip Blank Present:	☑Yes ☐No ☐N/A	11.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Project Manager Review:		
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	12.
Sufficient Volume:	☑Yes ☐No ☐N/A	13.
Correct Containers Used:	☑Yes ☐No ☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: T Sayles **Date:** 4/1/11

Form F-IN-Q290-rev.03, 028Mar2011

Sample Container Count

CLIENT: Patriot

COC PAGE 1 of 1
COC ID# 1458599

Project # 5047313

Pace Analytical
www.pacelabs.com

Sample Line Item	DG9H	AG1U	WGFU	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H					Comments
1			2														
2	3	2															
3			2														
4			2														
5			2														
6			2														
7	3	2															
8			2														
9			1														
10	3																
11	3																
12																	

Container Codes

DG9H	40mL HCL amber voa vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOh, Asc Acid plastic	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag